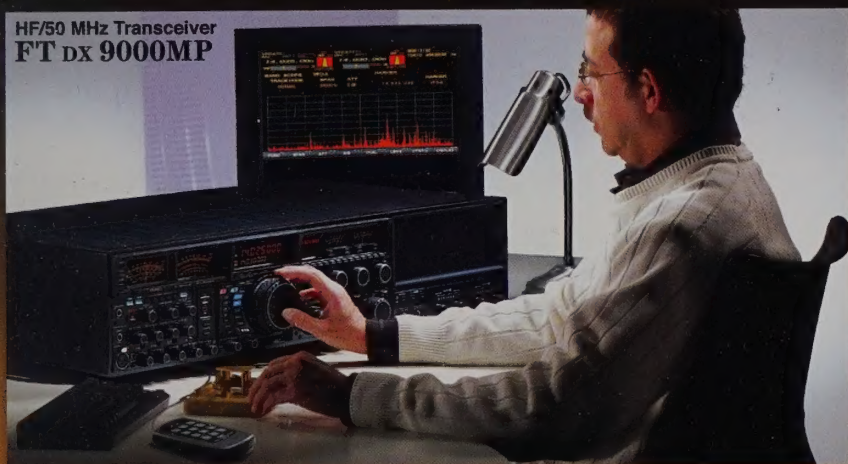




# Ride Cycle24 to the Top with Yaesu

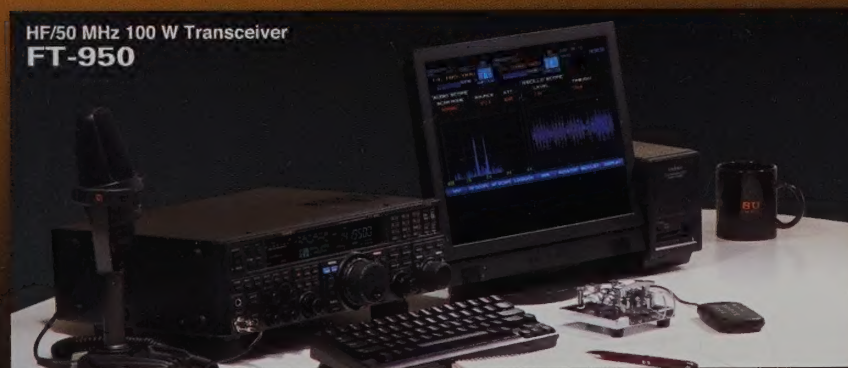
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FT DX 9000MP



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FT-2000



HF/50 MHz 100 W Transceiver  
FT-950



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# D-STAR: CONNECT ACROSS MILES INSTEAD OF METERS!

## What is D-STAR?

### D-STAR: an open protocol

D-STAR is an acronym for Digital Smart Technology for Amateur (Ham) Radio. The D-STAR technology is an open protocol designed in Japan. The English version of the protocol is published on the ARRL website ([www.ARRL.org](http://www.ARRL.org)). D-STAR is quickly growing in popularity with U.S. ham operators.

### Emergency Relief Comms

While D-STAR's sole application is Amateur Radio, recent events have made Amateur Radio a primary focus for disaster relief communications by the International Telecommunications Union, or ITU. In its latest update, February 2, 2006, the ITU created recommendation ITU-D13, encouraging international government administrations "to take the necessary steps to allow amateur stations to prepare for and meet communication needs in support of disaster relief."

128k D-STAR is available on select Icom equipment. Backbone D-STAR repeaters are already in place in numerous states throughout the U.S. More and more are coming online!

### D-STAR ready

#### IC-92AD & HM-175GPS

##### MILITARY RUGGED AND SUBMERSIBLE

- 5/2.5/.5/.1 Watt 2m/70cm
- RX: 0.495-999.990MHz\*
- Shown with Optional GPS Speaker Mic (HM-175GPS)
- 1304 Alphanumeric Memory Channels
- IPX7 Submersible\*



**ALL HANDHELDS ARE  
ANALOG + DIGITAL**

**All in one!**

#### IC-91A

### D-STAR optional

#### IC-91AD

### D-STAR ready

##### ADVANCED ANALOG & DIGITAL DUAL BANDER

- 5 Watt 2m/70cm • 1300 Alphanumeric Memory Channels • Digital Voice/Data Ready (91AD) or Upgradeable w/Optional UT-121 (91A) • 495kHz - 999.990MHz\* • V/V, U/U or V/U • Weather Alert • Dual Watch • Li-ion Power



### D-STAR optional

#### IC-V82 & IC-U82

##### D-STAR UPGRADEABLE FOR 2m OR 70cm

- 7 Watt VHF/5 Watt UHF • 200 Alphanumeric Memory Channels • Digital Voice & Data w/Optional UT-118 • Optional Callsign Squelch • CTCSS & DTCS Encode/Decode w/Tone Scan • Weather Alert



amateur

avionic

land mobile

marine

receiver

system

[www.icomamerica.com](http://www.icomamerica.com)

\*Frequency specs may vary. Refer to owner's manual for exact frequency specs.

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### ID-RP2C REPEATER CONTROLLER

The cornerstone of the D-STAR system. Handles up to four RF modules. Basic in-band or cross-band operation. Linking capabilities through the internet and future 10GHz backbone products.



### ID-RP2D 1.2GHZ DATA MODULE

Access point with a data rate of up to 128kbps. Depending on the system setup, set up an email and/or file server for EmComm support. Perfect for web applications or support via internet connection.



### ID-RP2V 1.2GHZ DIGITAL VOICE MODULE

### ID-RP2000V 2M DIGITAL VOICE MODULE

### ID-RP4000V 70CM DIGITAL VOICE MODULE

Finally, commercially available crossband systems! Together, with proper call sign programming in any D-STAR compatible mobile or portable, the Icom D-STAR system will automatically route your signal to any other RF module connected to a common RP2C. With simple system commands, you can direct your communications through any of the RF modules or across the world via the gateway.

**D-STAR optional**



### NEW IC-2820H

D-STAR UPGRADEABLE 2m/70cm

50/15/5 Watt • RX: 118-173.995, 375-549.995, 810-999.99MHz\*  
• Analog/Digital Voice with GPS (Optional UT-123) • 500 Alphanumeric Memories • Diversity Receive Capable

## DIGITAL

### UT-123 DIGITAL VOICE/GPS MODULE AND ANTENNA



**D-STAR ready**



### ID-1

GO DIGITAL ON 1.2GHz

10 Watt • High Speed Digital Data, Digital Voice, Analog Voice (FM) • Wireless Internet/Network Capable • PC Control via USB port • Digital Callsign & Digital Code Squelch

**D-STAR ready**

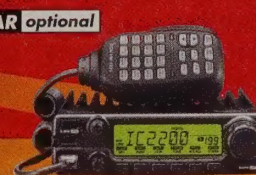


### ID-800H

GO DIGITAL ON 2m/70cm

55 Watt VHF/50 Watt UHF Wide RX: 118-173, 230-549, 810-999MHz\* • Analog/Digital Voice & Data • Callsign Squelch CTCSS & DTCS Encode/Decode w/Tone Scan

**D-STAR optional**



### IC-2200H

D-STAR UPGRADEABLE FOR 2m

65 Watt • 207 Alphanumeric Memories • Digital Voice & Data w/Optional UT-118 • Optional Callsign Squelch • CTCSS & DTCS Encode/Decode w/Tone Scan • Weather Alert

\*Frequency specs may vary. Refer to owner's manual for exact frequency specs.

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EME-13 Headset w/ear bud/mic/VOX .....	84.99
EME-15 Earphone/mic w/VOX .....	69.99
EME-20 Tie-pin mic & earphone .....	Δ 9.99
EMS-47 Spkr/mic w/volume control .....	29.99
ERW-4C PC cable .....	49.99
ERW-7 USB PC cable .....	49.99
ESC-36 Soft case for EBP-48N .....	17.99
SW-596 Windows prog software; DJ-596T ..	39.99
DJ-V17T 5w 2m FM HT .....	149.99
DJ-V27T 5w 220 FM HT .....	179.99
DJ-V47T 4.5w 440 FM HT .....	169.99
EBP-63 7.4v 1100mah Li-Ion battery .....	64.99
EBP-64 7.4v 1600mah Li-Ion battery .....	69.99
EBP-65 7.2v 700mah NiMH battery .....	46.99
EBP-66 7.2v 2000mah NiMH battery .....	49.99
EDC-36 Angle plug cigarette cable w/filter	29.99
EDC-37 13.8v power cable .....	9.99
EDC-144 Rapid charger .....	84.99
EDH-34 Dry cell case .....	19.99
EDS-11 Clone cable .....	16.99
EMS-62 Speaker/mic .....	49.99
ERW-4C PC cable .....	49.99
EDS-10 Mic/speaker cable .....	16.99
ERW-7 USB PC cable .....	49.99
ESC-41 Soft case .....	17.99
DJ-V5TH 5w 2m/440 FM HT .....	239.99
EBP-46N 9.6v 600mah 5w nicad battery ...	79.99
EDC-36 Angle plug cigarette cable w/filter	29.99
EDC-37 13.8v power cable .....	9.99
EDC-43 Cig lighter cable .....	14.99
EDH-29 Dry cell case for 4-AA's .....	16.99
EME-6 Earphone .....	14.99
EME-12 Headset w/earphone/mic/VOX .....	84.99
EME-13 Headset w/ear bud/mic/VOX .....	84.99
EME-15 Earphone/mic w/VOX .....	69.99
EME-20 Tie-pin mic & earphone .....	Δ 9.99



## Alinco - continued AES Price

EMS-47	Spkr/mic w/volume control	29.99
ESC-35	Soft case for EBP-45N/46N	15.99
<b>DJ-S11T</b>	340mw 2m FM HT/battery holder	89.99
EDC-78	Wall charger; (not for alkalines)	5.99
EDH-18	12v to 5.5v DC/DC conv/cig plug	19.99
EME-6	Earphone	14.99
EME-12	Headset w/earphone/mic/VOX	84.99
EME-13	Headset w/ear bud/mic/VOX	84.99
EME-15	Earphone/mic w/VOX	69.99
EME-20	Tie-pin mic & earphone	9.99
EMS-47	Spkr/mic w/volume control	29.99
ESC-27	Soft case	19.99
EBP-52N	3.6v 500mah NiMH batt; DJ-S40T	29.99
EBP-53N	6v 500mah NiMH batt; DJ-S40T	34.99
EBP-54N	3.6v 1500mah NiMH batt; DJ-S40T	44.99
EDH-31	Dry cell battery case; DJ-S40T	7.99
<b>DJ-S45T</b>	.5w 440 FM HT w/alkaline case	139.99
EME-6	Earphone	14.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
ESC-40	Soft case	19.99
EDH-27	Dry cell case w/charger; DJ-X2T	2.99
EDH-28	DC/DC converter w/cig plug; DJ-X2T	2.99
<b>DJ-X3T</b>	.1MHz-1.3GHz AM/FM hand Rcvr/cell blkd	179.99
EBP-52S	3.6v 500mah NiMH battery	44.99
EDC-105	Drop-in NiMH battery cgr, less ps	29.99
EDC-93	Wall ps for EDC-105	14.99
EDH-31S	Dry cell battery case	16.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
ESC-37	Soft case	8.99
<b>DJ-X7T</b>	.1MHz-1.3GHz AM/FM hand Rcvr/cell blkd	179.99
EBP-58N	Extra lithium ion battery	46.99
EDH-32	Cigarette lighter cable	24.99
EME-18	Earphone	16.99
EME-25	Curl cord earphone	17.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
ESC-38	Soft case	19.99
<b>DJ-X30T</b>	.1-1299MHz receiver/cell blocked	209.99
EDS-12	Remote controller cable	49.99
EME-6	Earphone	14.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
<b>DJ-X2000T</b>	.1-2149MHz receiver/cell blocked	549.99
EBP-37N	4.8v 700mah nicad battery	42.99
EDC-36	Angle plug cigarette cable w/filter	29.99
EDC-37	13.8v power cable	9.99
EDC-43	Cig lighter cable	14.99
EDC-88	Quick charger; nicad battery packs	49.99
EDH-16	Dry cell battery case	16.99
EME-6	Earphone	14.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
ESC-28	Soft case for EBP-33N	1.99
ESC-29	Soft case for EBP-37N	17.99
ESC-30	Soft case for EBP-34N/35N/36N	2.99
<b>DR-03T</b>	10w 10m FM Xcvr	279.99
<b>DR-06T</b>	50w 6m FM Xcvr	279.99
EDC-37	13.8v power cable; ignition on/off	9.99
EDC-43	Cig lighter cable; ignition on/off	14.99
EJ-41U	1200/9600 TNC unit; DR-06T	149.99
EJ-47U	Digital board; DR-06T	199.99
<b>DR-M06TH</b>	20w 6m FM Xcvr/encoder	229.99
MB-130	Extra mobile bracket	24.99
HK-130	Hardware kit for MB-130	7.99
PC-15B	Extra DC cable	14.99
<b>DR-135T Mk III</b>	Black 50w 2m FM Xcvr	189.99
<b>DR-235T Mk III</b>	Black 25w 220 FM Xcvr	279.99
<b>DR-435T Mk III</b>	Black 35w 440 FM Xcvr	289.99
EDC-37	13.8v power cable; ignition on/off	9.99

## Alinco - continued AES Price

EDC-43	Cig lighter cable; ignition on/off	14.99
EJ-41U	1200/9600 TNC unit	149.99
EJ-47U	Digital board; Mk II/III	199.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
MB-130	Extra mobile bracket	24.99
HK-130	Hardware kit for MB-130	7.99
PC-15B	Extra DC cable	14.99
SW-620	Windows programming software	39.99
<b>DR-135TP Mk III</b>	Blk 50w 2m FM/9600 TNC	299.99
EDC-37	13.8v power cable; ignition on/off	9.99
EDC-43	Cig lighter cable; ignition on/off	14.99
EJ-47U	Digital board; Mk II/III versions	199.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
MB-130	Extra mobile bracket	24.99
HK-130	Hardware kit for MB-130	7.99
PC-15B	Extra DC cable	14.99
SW-620	Windows programming software	39.99
<b>DR-635T</b>	50/35w 2m/440 FM Xcvr	399.99
EDS-9	Separation kit	59.99
EJ-47U	Digital board for DR-620T/635T	199.99
EJ-50U	TNC unit for DR-620T/635T	144.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
MB-130	Extra mobile bracket	24.99
HK-130	Hardware kit for MB-130	7.99
PC-15B	Extra DC cable	14.99
SW-620	Windows programming software	39.99
EDS-8	Adapter; EMS-14 w/DR-140/6050T	2.99
<b>DX-70TH</b>	Comp HF Xcvr/100w 6m/mob bkt	669.99
DM-330MVT	30A switching ps/meter/32A surge	199.99
DM-340MVT	30A ps w/meters/35A surge	219.99
EBC-8	Front control head bracket	19.99
EBC-9	Extra mobile bracket	39.99
EDS-5	5' microphone extension cable	44.99
EDS-6	15' remote cable	84.99
EDX-2	160-10m 200w wire auto tuner	319.99
EMS-14	Desk top microphone	139.99
PC-25	Extra DC cable	44.99

## ALPHA DELTA (ALP)

ATT-3G50	200w 3GHz type N surge protector	\$ 59.99
ATT-3G50-HP	2kw 3GHz type N surge protector	59.99
ATT-3G50U	200w 500MHz UHF surge protector	49.99
ATT-3G50U-HP	2kw 500MHz UHF surge protector	49.99
ATT/3G50	Extra 200w arc-plug cartridge	14.99
ATT/HP/3G50HP	Extra 2kw arc-plug cart	14.99
Delta-2B	500 MHz 2-pos coax switch/protector	59.99
Delta-2B/N	1.3 GHz 2-pos N switch/protector	75.99
Delta-4B	500 MHz 4-pos coax switch/protector	89.99
Delta-4B/N	1.3 GHz 4-pos N switch/protector	99.99
D-4	Extra arc-plug; Delta-2/2N/4/4N	9.99
Delta-C	Kit w/ctr ins/2 end ins/static protect	29.99
SEP	Extra arc-plug cart; DX-Ultra/Delta-C	15.99
Delta-CIN	Antenna end insulator	1.99
DX-80	80m 134' complete dipole antenna	70.99
DX-40	40m 67' complete dipole antenna	70.99
DX-20	20m 34' complete dipole antenna	70.99
DX-A	160-80-40m twin sloper antenna	100.99
DX-B	160-80-40-30m 60' sloper ant	110.99
DX-CC	80-10m 5-band 82' no trap, no tuner dipole	160.99
DX-DD	80/40m 82' Delta Dipole antenna	130.99
DX-EE	40-10m 4-band 40' no trap, no tuner dipole	140.99
DX-LB	160-80-40m 100' shortened dipole	160.99
DX-LB Plus	160/80/40/20/15/10m 100' short dip	190.99
DX-SWL	AM broadcast-13m 60' SWL sloper ant	120.99
DX-Ultra	AM broadcast-30MHz 80' SWL dipole	160.99
SEP	Extra arc-plug cart; DX-Ultra/Delta-C	15.99
Pathfinder	1.8-30MHz+6m dig auto ant tuner	199.99

## AES Price

## AMECO (AME) CODE PRACTICE OSCILLATORS & CODE KEYS

K-1	Bakelite type key	\$ 10.95
K-4R	Brass type key	17.95
OCM-2K	Code oscillator & CW monitor kit	19.99
OCM-2W	Wired oscillator & CW monitor	29.99
<b>PREAMPLIFIERS</b>		
TPA	HF receive preamp & indoor active ant	\$ 79.99
P-9T	Power supply for TPA	9.99
PT-3	2-54 MHz transceiver preamp	139.99
P-12T	Power supply for PT-3	9.99

## FILTERS

HP-75T	75 ohm high-pass filter	\$ 14.99
HP-300T	300 ohm high-pass filter	6.99

## AMERITRON (AMR)

AL-80B	1kw PEP out linear amp (3-500Z)	1349.99
AL-82	1.5kw PEP out linear amp (2 3-500Zs)	2399.99
AL-572	1.3kw PEP out linear amp (4 572Bs)	1599.99
AL-800	1250w PEP out linear (3CX800A7)	1899.99
AL-800H	1.5kw PEP out amp (2 3CX800A7)	2829.99
AL-811	600w PEP out linear amp (3 811As)	719.99
AL-811H	800w PEP out linear amp (4 811As)	869.99
AL-1200	1.5kw PEP out linear (3CX-1200A7)	2999.99
AL-1500	1.5kw out linear amplifier (8877)	3049.99
ALS-500M	500w PEP out solid state mob amp	749.99
ALS-500RC	Remote head; sn 13049 & up	49.99
SPS-75	75A switching power supply w/fan	359.99
ALS-600	600w PEP out solid state amp w/ps	1299.99
ALS-600S	600w PEP out solid state amp/switching ps	1399.99
ARB-704	Amplifier Xcvr interface buffer	59.99
PNP-5M	Plug & play cable; FT-847	17.99
PNP-7D	Plug & play cable; TS-570S/870S/2000	17.99
PNP-7D1	Plug & play cable; 8-pin DIN/com acc	17.99
PNP-8D	Plug & play cable; FT-920/1000 series	17.99
PNP-8M	Plug & play cbl; FT-817/840/857/897	17.99
PNP-8MK	Plug & play cable; TS-480	17.99
PNP-13D	Plug & play cable; IC-706/7000	17.99
PNP-35	Plug & play cable; FT-100 series	17.99
ARB-70412	Amp Xcvr interface/cbl; IC-706/7000	59.99
ATP-100	Amplifier tuning pulser	69.99
ATP-102	Deluxe amplifier tuning pulser	79.99
ATR-20	1.2kw PEP antenna tuner	429.99
ATR-30	3kw PEP antenna tuner	559.99
ADL-1500	1.5kw dummy load with oil	74.99
ADL-2500	2.5kw dummy load with fan	209.99
ICP-120	120v inrush protector	79.99
ICP-240	240v inrush protector	79.99
AWM-30	3kw PEP SWR/wattmeter/rem sens	149.99
AWM-35	3kw PEP mobile SWR/wattmeter	159.99
QSK-5	Stand alone T/R switch	339.99
QSK-5PC	PC board kit; T/R switch	259.99
CF-5	Cooling fan for QSK-5	39.99
RCS-4	4-pos wireless remote coax switch	149.99
RCS-8V	160-2m 5-pos remote coax switch	159.99
RCS-8VN	160-2m 5-pos N rem coax switch	169.99
Note: RCS-8V/VN require 8-wire control cable.		
RCS-10	DC-100MHz 8-pos remote coax switch	179.99
Note: RCS-10 requires 4-wire control cable.		
<b>ANTENEX/LAIRD (ANX)</b>		
AB-FT	118-896MHz 1/4 wave NMO whip	\$ 16.99
AB-SCANC	VHF/UHF/800MHz NMO mob scan ant	29.99
BB-1442N	144-174 2.4db no grd plane NMO mob	39.99
BB-1443	144-174MHz 3db 9" NMO mobile	39.99
BB-4303	430-450 3db 11" NMO mobile	34.99
CB-144/440C	2m/440 2.5db 36" NMO mobile	49.99
CWB-1443	Self-tuning 144-156 3db NMO mob	49.99
CWB-4405C	Self-tuning 440-470 5db NMO mob	49.99
FG-1440/FM-2	2m 92" fig unity gain N base w/mnt	99.99



## Antenex - continued AES Price

FG-1443/FM-2	2m 107" fg 3db N base ant w/mt	Δ	149.99
FG-4403/FM-2	440-450 44" fg 3db N base w/mt	Δ	99.99
FG-4405/FM-2	440-450 76" fg 5db N base w/mt	Δ	149.99
GB-8PSTI	NMO mag mt w/coax & teflon PL259		34.99
LBMB-9034	Mirror mt 3/4" hole L-bracket		10.99
MB-8PST	NMO hole mt w/coax & teflon PL259		16.99
TM8-PST	Chrome NMO mini trunk mt/coax/PL259		26.99
TRABT-1420	142-164 Phantom whipless NMO		59.99
TRAB-4303	430-450 3db Phantom whipless NMO		29.99
VTPM	NMO mt up to 1" thick plate (UHF barrel)		19.99
Y-1363	136-150MHz 3el 7.1db gold N beam		99.99
Y-1365	136-150MHz 5el 9.2db gold N beam		129.99
Y-4303	430-450 3el 7.1db gold welded N beam		99.99
Y-4305	430-450 5el 9.2db gold welded N beam		129.99

## Antenna Specialists (ASP)

APR143	2m 23" on glass cell look-alike ant	Δ	\$ 59.99
KAV-353	On glass replacement mtg kit	Δ	9.99

## Antenna Supemarket (ANT)

Eavesdropper*	60-11m trap dipole SWL ant		\$ 99.99
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\*Specify SO-239 or twin-lead

## ARROW Antenna (ARA)

146/437-10	3 el 2m/7 el 440 handheld beam		\$ 73.00
146/437-10BP	3el 2m/7el 440 HH split bm beam		79.00
10w duplexer	(installs in boom) w/BNC		59.00
10w duplexer	(installs in boom) w/SMA		64.00
OSJ-146/440	2m/440 57.5" J-pole antenna		39.00

## ARTSCI (ART)

Lost Users Manuals		D	\$ 19.95
Repeater Mapbook 14th edition			14.99

## ASTRON (ASR)

RS-4L	3A ps, 4A surge, w/cig lighter socket	Δ	\$ 39.99
RS-7A	5A power supply, 7A surge		69.99
RS-10A	7.5A power supply, 10A surge		79.99
RS-12A	9A power supply, 12A surge		89.99
RS-12S	9A ps, 12A surge, w/speaker	Δ	64.99
RS-20A	16A power supply, 20A surge		99.99
RS-35A	25A power supply, 35A surge		159.99
RS-50A	37A power supply, 50A surge		229.99
RS-70A	57A power supply, 70A surge		289.99
RS-20M	16A ps w/meters, 20A surge		129.99
RS-35M	25A ps w/meters, 35A surge		179.99
RS-50M	37A ps w/meters, 50A surge		259.99
RS-70M	57A ps w/meters, 70A surge		319.99
VS-20ML	Variable 16A ps/meters, 20A surge		149.99
VS-35M	Variable 25A ps/meters, 35A surge		209.99
VS-50M	Variable 37A ps/meters, 50A surge		279.99
RM-35M	25A rack mt ps/meters, 35A surge		269.99
RM-50M	37A rack mt ps/meters, 50A surge		319.99
RM-60M	50A rack mt ps/meters, 55A surge		429.99
SS-25	20A switching ps, 25A surge		129.99
SS-25M	20A switching ps/meters, 25A surge		149.99
SS-30	25A switching ps, 30A surge		139.99
SS-30M	25A switching ps/meters, 30A surge		159.99
N2412-12	10A 22-32vdc to 13.8vdc converter		59.99
N2412-24	20A 22-32vdc to 13.8vdc converter		89.99

## AvMap (AVM)

G-5	Geosat 5 GPS/THD7A/TMD700/710A cable		\$649.99
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## BMI (BMI)

972AD	14" 12/24-hour wall clock		\$ 32.99
973A	12" 24-hour wall clock		49.99

## B & W (B&W)

AC-110	Continuous 1.8-30 MHz vee ant	D	\$259.99
AP-10B	51" portable 40/20/15/10/6/2m ant	D	69.99
BWD-20	14-30 MHz 20' folded dipole	D	249.99
BWD-45	7-30 MHz 45' folded dipole	D	249.99

## B & W - continued AES Price

BWD-65	4-30 MHz 65' folded dipole	D	299.99
FDMK	Mtg kit; folded dipole/3 pole installation	D	39.99

## BELDEN (BEL)

### 52 OHM COAXIAL CABLE

8216	RG-174 (sub-miniature)		per ft. \$ .43
8216		100 ft. Roll	41.99
8216		500 ft. Roll	149.99
8216		1000 ft. Roll	279.99
8240	RG-58U (solid center)		per ft. .49
8240		100 ft. Roll	47.99
8240		500 ft. Roll	174.99
8240		1000 ft. Roll	329.99
8259	RG-58AU (stranded center)		per ft. .54
8259		100 ft. Roll	52.99
8259		500 ft. Roll	179.99
8259		1000 ft. Roll	329.99
8219	RG-58AU (stranded, foam)		per ft. .49
8219		100 ft. cut	47.99
8219		500 ft. Roll	179.99
8219		1000 ft. Roll	329.99
8262	RG-58CU (non-contaminating)		per ft. .51
8262		100 ft. cut	49.99
8262		500 ft. Roll	219.99
8262		1000 ft. Roll	399.99
9258	RG-8X (stranded, foam)		per ft. .59
9258		100 ft. cut	54.99
9258		500 ft. cut	214.99
9258		1000 ft. Roll	399.99
8237	RG-8U		per ft. 1.04
8237		100 ft. Roll	99.99
8237		500 ft. Roll	399.99
8214	RG-8U (foam)		per ft. .99
8214		100 ft. Roll	94.99
8214		500 ft. Roll	454.99
8214		1000 ft. Roll	869.99
9913	RG-8U (low loss)		100 ft. Roll 99.99
9913		250 ft. Roll	214.99
9913		500 ft. Roll	399.99
9913F7	RG-8U (low loss, flexible)		per ft. 1.34
9913F7		100 ft. Roll	129.99
9913F7		250 ft. Roll	269.99
9913F7		500 ft. Roll	479.99
8267	RG-213 (non-contaminating)		per ft. 1.39
8267		100 ft. cut	134.99
8267		500 ft. Roll	594.99

### 75 OHM COAXIAL CABLE

8241	RG-59U (73 ohm, solid center)		per ft. \$ .51
8241		100 ft. Roll	49.99
8241		500 ft. Roll	154.99
8241		1000 ft. Roll	289.99
9248	RG-6U (75 ohm, solid center)		Δ, per ft. .39
9248		Δ, 1000 ft. Roll	299.99
8238	RG-11 (75 ohm, stranded center)		per ft. 1.44
8238		100 ft. cut	134.99
8238		500 ft. Roll	534.99
8213	RG-11 (75 ohm, solid, foam)		per ft. 1.39
8213		100 ft. cut	129.99
8213		500 ft. Roll	514.99

### ROTOR CABLE

8484	4-wire; 4-20 gauge		per ft. \$ .53
8484		100 ft. cut	49.99
8484		500 ft. Roll	224.99
8484		1000 ft. Roll	424.99
8448	8-wire; 2-18, 6-22 gauge		per ft. .59
8448		100 ft. cut	54.99
8448		500 ft. Roll	224.99
8448		1000 ft. Roll	429.99

## Belden - continued AES Price

9405	8-wire; 2-16, 6-18 gauge		per ft. 1.29
9405		100 ft. cut	124.99
9405		500 ft. Roll	524.99
9405		1000 ft. Roll	999.99

### COPPERWELD ANTENNA WIRE

8000	No. 14 stranded antenna wire		per ft. \$ .54
8000		100 ft. Roll	48.99
8000		1000 ft. Roll	379.99

### No. 8 ALUMINUM GROUND WIRE

8018	Multiples of 50 ft.		each \$ 30.99
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Note: All above roll pricing is for rolls as shown only; all other lengths, even if more than roll length shown or a multiple of roll length shown, are sold at the per ft. price.

### FOAM COAX w/PL-259s ON BOTH ENDS

9354	50' RG-8U foam		\$104.99
9355	75' RG-8U foam		144.99
9356	100' RG-8U foam		166.99

## BENCHER (BEN)

BY-1	Iambic keyer paddle w/black base		\$114.99
BY-2	Iambic keyer paddle w/chrome base		139.99
BY-3	Iambic keyer paddle, gold plated	Δ	299.99
BY-4	Iambic paddle/blk base/gold components		179.99
170-82	Mercury paddle		drop ship 449.99
ST-1	Single lever keyer paddle, black base		119.99
ST-2	Sgl lever kyr paddle, chrome base		139.99
RJ-1	Dlx hand key w/navy knob/black base		110.99
RJ-2	Dlx hand key w/navy knob/chrome base		135.99
YA-1	1kw low pass filter		90.99

## BETTER RF (BET)

706	Tune Control for IC-706 series/IC-718		\$ 32.99
7000	Screwdriver Control* for IC-7000		84.99
	*Requires 7000 Tune Control also		
7000	Tune Control for IC-7000		54.99
I-Mate	Msg acc; 746PRO/756PRO II/III/7800		74.99
Yae	Tune Control for FT-100/450/857/897/950		44.99

## Bounty Hunter (BOU)

Fast Tracker	Metal detector/2-tone target ID	Δ	\$ 59.99
Tracker IV	Metal detector/3-mode		129.99
Quick Draw II	Metal detector/full motion		229.99
Sharp Shooter II	Metal detector/LCD readout		269.99
Land Star	Metal detector/3-tone audio discrim		299.99
Land Ranger	Metal detector/programmable	Δ	349.99
Time Ranger	Metal detector/top-of-the-line	Δ	399.99
Carry Bag	For Bounty Hunter metal detectors		29.99
10" Coil	10" magnum coil; adds depth		49.99

## BUCKMASTER (BUC)

HamCall	CD-ROM ham listings		\$ 50.99
OCF	7-band 300w 135' off-center-fed dipole		191.99

## BUSHNELL (BUS)

10-1911	Velocity sports speed gun		\$ 99.99
78-0101	1.25" 9mm Kellner eye; 0040/6000/8000	Δ	14.99

## BUTTERNUT (BUT)

Skyhawk 3X10	Triband 10 el, 24' beam w/bauln *		\$ 1149.99
*Skyhawk 3X10 is drop-shipped (shipped direct to you from the Butternut factory). On factory drop-shipsments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Wood Dale, Illinois via UPS, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on this special order item.			
HF-6VX	80/40/30/20/15/10m 26' vert ant		389.99
HF-9VX	80/40/30/20/17/15/12/10/6m 26' vert		449.99
A17-12	17 & 12m kit for HF-6VX		66.99



## Butternut - continued AES Price

CPK Counterpoise kit .....	169.99
MPS Mounting post sleeve .....	14.99
RMK-II Roof mounting kit w/radials .....	189.99
STR-II Radial kit only .....	144.99
TBR-160S 160m resonator .....	159.99
HF-2V 80/40m 32' vertical .....	299.99
TBR-160S 160m resonator .....	159.99

## CQ (CQX)

Building and Using Baluns and Ununs .....	\$ 19.99
HR Anthology - Homebrewing Techniques .....	19.99
W6SAI HF Antenna Handbook .....	19.99

## CSS (CSS)

ROC Digital Desktop; Kan Software; Kan TNCs .....	\$ 99.99
ROC Digital Desktop; AEA/Tim Soft PK-12/96/232 .....	99.99

## CABLE X-PERTS (CAB)

CXP1318FX CXP1318FX (low loss, flexible) per ft. ....	\$ 1.04
CXP1318FX .....	500 ft. Roll 476.99
CXP1318FC-3 3' CXP1318FX/silver teflon PL259s .....	22.99
CXP1318FC-50 50' CXP1318FX/silver teflon PL259s .....	77.99
CXP1318FC-75 75' CXP1318FX/silver teflon PL259s .....	102.99
CXP1318FC-100 100' CXP1318FX/silver teflon PL259s .....	133.99
CXP1318FC-150 150' CXP1318FX/silver teflon PL259s .....	186.99
CXP1318FN-3 3' CXP1318FX/type N males ....	29.99
CXP1318FN-6 6' CXP1318FX/type N males ....	32.99
CXP1318FN-10 10' CXP1318FX/type N males ....	35.99
CXP1318FN-25 25' CXP1318FX/type N males ....	54.99
CXP1318FN-50 50' CXP1318FX/type N males ....	83.99
CXP1318FN-75 75' CXP1318FX/type N males ....	116.99
CXP1318FN-100 100' CXP1318FX/type N males ....	139.99
CXP1318FN-125 125' CXP1318FX/type N males ....	170.99
CXP008C-3 3' RG8 foam/silver teflon PL259s .....	22.99
CXP008C-6 6' RG8 foam/silver teflon PL259s .....	25.99
CXP008C-25 25' RG8 foam/silver teflon PL259s .....	37.99
CXP008C-50 50' RG8 foam/silver teflon PL259s .....	55.99
CXP008C-75 75' RG8 foam/silver teflon PL259s .....	73.99
CXP008C-100 100' RG8 foam/silver teflon PL259s .....	98.99
CXP008C-125 125' RG8 foam/silver teflon PL259s .....	115.99
CXP213C-6 6' RG213/silver teflon PL259s ...	26.99
CXP213C-15 15' RG213/silver teflon PL259s .....	36.99
CXP213C-25 25' RG213/silver teflon PL259s .....	47.99
CXP213C-50 50' RG213/silver teflon PL259s .....	73.99
CXP213C-75 75' RG213/silver teflon PL259s .....	96.99
CXP213C-100 100' RG213/silver teflon PL259s .....	118.99

CXP08XC-18IN 18" RG8X/silver teflon PL259s .....	14.99
CXP08XC-3 3' RG8X/silver teflon PL259s .....	16.99
CXP08XC-6 6' RG8X/silver teflon PL259s .....	18.99
CXP08XC-12 12' RG8X/silver teflon PL259s .....	22.99
CXP08XC-25 25' RG8X/silver teflon PL259s .....	26.99
CXP08XC-50 50' RG8X/silver teflon PL259s .....	36.99
CXP08XC-75 75' RG8X/silver teflon PL259s .....	47.99
CXP08XC-100 100' RG8X/silver teflon PL259s .....	57.99

6633S Type N male plug .....	6.99
CXP058ARBP-3 3' RG58/ft angle BNC male - PL-259 .....	19.99
CXP058ARBS-3 3' RG58/BNC male - SO-239 .....	30.99
CXP142SBJ-3 3' RG142/SMA male - BNC female .....	28.99
CXP08XC-3 3' RG8X/male BNCs .....	27.99
CXP08XC-6 6' RG8X/male BNCs .....	29.99

235 1" tinned copper ground braid .....	per ft 1.44
235 .....	100 ft. Roll 124.99
2332 1/2" tinned copper ground braid .....	per ft .89
2332 .....	100 ft. Roll 70.99
AZ-12 12ga red/black DC power cord .....	per ft 1.10
AZ-12 .....	100 ft. Roll 95.99

## CAT Comm (CAT)

NVSCAN-1 Southern NV Radio Scanning Directory .....	\$ 16.99
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## CELESTRON (CEL)

52211 60mm wildlife zoom spotting scope/tripod D .....	\$ 69.99
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## Celestron - continued AES Price

93353 1.25" 18mm Ultima lens .....	39.99
93497 Standard tripod .....	59.99
93700 CD-ROM "The Sky for Celestron" .....	9.99

## Channel Master (CHA)

9521A Prog light duty rotor/IR rem cont/3-wire .....	\$ 99.99
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## CLOCKS

BMI 972AD 14" 12/24-hour wall clock .....	\$ 27.99
BMI 973A 12" 24-hour wall clock .....	49.99
LAC WT-3102S 10" 12-hr analog atomic clock .....	19.99
MFJ 105C 24-hour quartz wall clock .....	24.99
MFJ 107B 24-hour digital clock .....	12.99
MFJ 108B 24/12-hour dual disp digital clock .....	21.99
MFJ 112B Deluxe world map clock .....	29.99
MFJ 113 24/12-hr 1.8" LED clock/batt back-up .....	19.99
MFJ 118 Giant 24/12 hour LCD clock .....	29.99
MFJ 123 Eternity solar atomic clock .....	49.99
MFJ 123B Eternity solar atomic clock .....	79.99
MFJ 125 Calendar 24-hour analog wall clock .....	34.99

## COAX SEAL (UNV)

104 1/2" x 60" coax seal .....	\$ 3.99
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## Coaxial Dynamics (COA)

81000-A Wattmeter w/SO-239s .....	\$289.99
83000-A Peak reading wattmeter w/SO-239s .....	413.99
82004 50w 2-30MHz element .....	105.99
82005 100w 2-30MHz element .....	105.99
82006 250w 2-30MHz element .....	105.99
82007 500w 2-30MHz element .....	105.99
82008 1000w 2-30MHz element .....	105.99
82009 2500w 2-30MHz element .....	139.99
82010 5000w 2-30MHz element .....	139.99
82013 10w 25-60MHz element .....	75.99
82014 25w 25-60MHz element .....	75.99
82015 50w 25-60MHz element .....	75.99
82016 100w 25-60MHz element .....	75.99
82029 10w 100-250MHz element .....	75.99
82031 50w 100-250MHz element .....	75.99
82033 250w 100-250MHz element .....	75.99
82046 10w 400-1000MHz element .....	75.99
82048 50w 400-1000MHz element .....	75.99
82049 100w 400-1000MHz element .....	75.99
88000 N female quick match connector each .....	13.99
88800 Carrying case for meter .....	72.99

## COBRA (COB)

19DX IV AM Mobile CB .....	\$ 49.99
25LTD (25LTD Classic) AM Mobile CB .....	89.99
25WXNW ST Night Watch Sound Tracker AM Mob CB/WX .....	109.99
29LTD (29LTD Classic) AM Mobile CB .....	99.99
29NWD Night Watch AM Mobile CB .....	119.99
29WXNW ST Night Watch Sound Tracker AM Mob CB/WX .....	129.99
75WX ST Sound Tracker AM Mobile CB w/WX .....	99.99
148GTL SSB/AM Mobile CB .....	149.99
HH-Road Trip Sound Tracker HH CB/WX/mag ant .....	79.99
HGA-1000 Magnet mt CB antenna .....	29.99
HGM-77 Noise canx/amplified mobile mic .....	24.99

## COMET (CMT)

### SWR/POWER METER

CMX-1 1.8-60MHz 2kw remote SWR/pwr meter .....	\$169.99
EKS-3 Optional 10' extension cable for CMX-1 .....	28.99

### MOBILE ANTENNAS

B-10 2m/440 0/2.15db 12" cell look-alike ant .....	\$ 42.99
B-10NMO 2m/440 0/2.15db 12" cell look-alike NMO .....	42.99
CA-2X4SR 2m/440 3.8/6.2db 40" mob ant ...	69.99
CSB-750A 2m/440 3.6/6.1db 42" foldover ant .....	72.99
CSB-770A 2m/440 4.4/6.9db 51" foldover ant .....	89.99
CSB-790A 2m/440 5.1/7.7db 62" foldover ant .....	115.99
HP-32FHN 2m/440 3/5.5db 34" 350/250w ant .....	89.99
M-24B 2m/440 1.7/4.1db mag mt ant w/BNC .....	39.99

## Comet - continued AES Price

M-24M 2m/440 1.7/4.1db mag mt ant w/PL259 .....	39.99
M-24S 2m/440 1.7/4.1db mag mt ant w/SMA .....	39.99
SBB-1 2m/440 1.5/2.15db 16" flex mobile ...	42.99
SBB-1NMO 2m/440 1.5/2.15db 16" flex NMO .....	42.99
SBB-2 2m/440 2.15/3.8db 18" black mobile .....	42.99
SBB-2NMO 2m/440 2.15/3.8db 18" blk NMO .....	42.99
SBB-5 2m/440 3/5.5db 39" black mobile ant .....	58.99
SBB-5NMO 2m/440 3/5.5db 39" black NMO ..	58.99
SBB-7 2m/440 4.5/7.2db 58" black mob ant .....	79.99
SBB-7NMO 2m/440 4.5/7.2db 58" black NMO .....	79.99
SB-14 6m/2m/440 43" chrome mobile ant ...	67.99
SB-15 6m/2m/440 0/4.5/7.2db 58" chr mob .....	84.99
SBB-25 2m 4.1db black mobile antenna .....	48.99
SBB-25NMO 2m 4.1db black NMO mob ant ...	48.99
SBB-94 2m/440 1.2 2.15/5.1/7.2db 24" N blk .....	69.99
SB-97 2m/440/1.2 3/6.8/9.6db 39" type N .D .....	69.99
SBB-97 2m/440/1.2 3/6.8/9.6db 40" N black .....	84.99
SB-123 1.2GHz 7.2db 24" type N mob ant . D .....	54.99
SBB-123 1.2GHz 7.2db 24" type N blk mob ...	54.99
SBB-224 2m/220/440 2.15/3.5/6db blk mob .....	78.99
SBB-224NMO 2m/220/440 2.15/3.5/6db blk NMO ..	78.99
SF-245 2.4 GHz 7db 18" fg type N ant .....	34.99
SF-245SPRR 2.4GHz 7db 18" fg N ant/spring .....	59.99
UHV-4 10/6/2/440 55" mobile ant; FT8900R .....	109.99
UHV-6 40/15/10/6/2m/440 78" mobile ant ...	159.99
L-3.5 80m loading coil for UHV-6 .....	34.99
L-14 20m loading coil for UHV-6/CA-HV ....	29.99
L-18 17m loading coil for UHV-6/CA-HV ....	29.99

## MOBILE MOUNTS

3D4M Mobile mt, 13' coax w/UHF connectors .....	\$ 26.99
3D4N Mobile mt, 13' coax w/type N .....	26.99
3D5M Mobile mt, 16.5' coax w/UHF connectors .....	28.99
5D4N Roof mount, 13' coax w/type N .....	34.99
AD-10N NMO mount to female N adapter .....	21.99
AD-15M NMO mount to SO-239 adapter .....	21.99
AD-25M SO-239 to NMO mount adapter .....	15.99
AD-35M 1/2-24 stud to UHF mobile mt adapter .....	17.99
CK-3-3/8-24 Dlx 2-step 16.5' cbl/3/8-24/UHF .....	42.99
CK-3M Dlx 2-step 9'9" cable w/UHF connectors .....	35.99
CK-3M5 Dlx 2-step 16.5' cable w/UHF connects .....	42.99
CK-3NMO Dlx 2-step 16.5' cable w/NMO/UHF .....	42.99
CK-5N Dlx 13' cable assembly w/type N .....	49.99
CM-5M Hvy duty mag mt, coax, max 4' ant ..	24.99
CP-5-3/8-24 HD 1/2-24 mt (RS-730) w/16.5' coax .....	69.99
CP-5M Hvy duty UHF mt (RS-730) w/16.75' coax .....	69.99
CP-5NMO Hvy duty NMO mt (RS-730) w/16.5' coax .....	69.99
CR-5M Std coax assy, 16.5' coax, UHF conn ..	19.99
CT-5M Trunk lip mount w/16.5' coax .....	39.99
GRB-5M Deluxe black trunk lip mt w/coax ...	69.99
HD-5-3/8-24 HD 1/2-24 lip mt (RS-840) w/16.5' coax .....	69.99
HD-5M Hvy duty lip mt (RS-840) w/16.5' coax .....	69.99
MG-4N Magnet mt w/13' coax, N connector ..	54.99
RS-520 Mini heavy duty trunk/hatch mount ..	28.99
RS-560C Luggage rack mount, no coax .....	37.99
RS-720 Hatch/rear door/trnk multi-adj mt ....	29.99
RS-720NMO Hch/rear door/trnk multi-adj NMO mt .....	29.99
RS-730 HD rear van/SUV door/trnk lip mt, no coax .....	32.99
RS-840 HD low profile lip mt w/lateral support .....	32.99
WS-1M Window clip mt w/UHF connectors ....	66.99

## BASE STATION ANTENNAS

CA-712EF 440 9db 10' 5" base antenna .....	\$109.99
CA-ABC22A 2m 6.5db 9' 5" base/rptr ant ....	75.99
CA-ABC23 2m 7.8 db 13' 4" base/rptr ant ....	109.99
CA-F726F 440-470 6db 3' 6" tunable ant ....	109.99
CA-52HB4 6m 4 el 10.4db 10' 6" boom beam .....	139.99
CA-250B 3.5-57MHz no radials 23.5' vertical .....	429.99
CHX-323 2m/220/440 6.5/7.8/9db 10.25' ant .....	189.99
CYA-1216E 1.2GHz 16el 16.6db 4' 5" bm N beam .....	109.99
DS-150S 6m/2m/440/900/1.2 discone/60' coax .....	99.99
GH-50 6m 2.15db 7' 10" fg base antenna ....	109.99
GP-1 2m/440 3/6db 4' 1" base/rptr antenna .....	74.99



## Comet - continued

GP-3	2m/440 4.5/7.2db 5' 11" base/rptr ant	99.99
GP-6	2m/440 6.5/9db 10' 2" base/rptr ant	159.99
GP-9	2m/440 8.5/11.9db 17' 8" base/rptr	219.99
GP-9N	2m/440 8.5/11.9db 17' 8" N base/rptr	219.99
GP-15	6/2m/440 3/6.2/8.6db 7' 11" base	179.99
GP-21/CA-1221S	1.2 14.8db 8' N base/rptr	169.99
GP-24R	2.4GHz 15.4db 5' 10" N base/rptr	149.99
GP-95	2m/440/1.2 6/8.6/12.8db 8' 1-pc N ant	159.99
GP-98	2m/440/1.2 6.5/9/13.5db 9' 8" N ant	169.99
H-422	40/20/15/10m 34' rotatable dipole	349.99
KP-20	900 MHz 9.2db 7' 4" type N base/rptr	119.99

## DUPLEXERS AND TRIPLEXERS

CF-142	1.3-150/200-480 600/400w UHF/leads	\$ 69.99
CF-360A	1.3-30/50-470 600w UHF w/leads	69.99
CF-360B	1.3-30/50-470 600w UHF/common lead	69.99
CF-416A	2m/440 800/500w SO239/PL259/leads	49.99
CF-416B	2m/440 800/500w UHF/N w/leads	49.99
CF-416C	2m/440 800/500w N/UHF/N leads	54.99
CF-416W	1.3-250/400-1400 400w/200w N/leads	69.99
CF-530	1.3-90/125-470 600w UHF w/leads	74.99
CF-530C	Backwards duplexer for FT-8900R	69.99
CF-706A	1.3-56/75-470 350w UHF w/leads	74.99
CF-4130B	1.3-460/840-1400 800/500/200w UHF/N	49.99
CF-4160I	2m/440 800/500w UHF/UHF/N, no leads	48.99
CF-4160J	2m/440 800/500w SO239, no leads	53.99
CF-4160K	2m/440 800/500w all UHF, no leads	48.99
CFX-324A	2m/220/440 600w UHF w/leads	88.99
CFX-324B	2m/220/440 600w UHF, no leads	85.99
CFX-514	HF/2m/440 800/800/500w UHF w/leads	79.99
CFX-514J	HF/2m/440 800/800/500w UHF, no leads	74.99
CFX-514N	HF/2m/440 800/800/500w UHF/N w/leads	79.99
CFX-4310C	1.3-150/440/1.2 triplexer, no leads	79.99
CFX-5140	HF/6m/2m/440 800/800/500w UHF, no leads	74.99

## HT & HANDHELD SCANNER ANTENNAS

BNC-24	2m/440 17" 2.15/5.3db BNC whip	\$ 24.99
CH-32	2m/440 1.75" BNC Miracle Baby ant	29.99
CH-75	2m/440 0/3.2db 14.75" BNC ant	25.99
HB-05	18" BNC female - SMA male adapter/cbl	14.99
HM-05	18" BNC male - SO-239 adapter/cable	14.99
HS-05	18" SMA male - SO-239 adapter/cable	14.99
HS-10	39" SMA male - SO-239 adapter/cable	17.99
HT-224	2m/220/440 11.5" SMA antenna	47.99
SH-55	2m/440 1.5/3.2db 15" BNC ant	33.99
SH-95	2m/440/1.2 1.5/2.15/5.5db BNC ant	34.99
SMA-3	2m/440 1.2/1.7db 9.75" SMA ant	39.99
SMA-24	2m/440 17" 2.15/5.3db SMA whip	24.99
SMA-501	2m/440/900 1.5" SMA antenna	29.99
SMA-503	2m/440 8.75" SMA antenna	29.99
SMA-703	2m/440/1.2GHz 6.5" SMA ant	31.99

## Comm Outfitters (COF)

EXP-1	Expedition Pack for Yaesu FT-817	\$ 99.99
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## COMM-SPEC (COM)

ID-8	Automatic morse station identifier	\$ 69.99
SS-64	64-tone mini prog CTCSS encoder	28.99
TE-32	32-tone CTCSS prog encoder box	59.99
TS-64DS	64-tone CTCSS prog encoder/decoder	57.99

## CONNECTORS

### AMPHENOL COAX CONNECTORS (AMP)

83-TSP-1050	Male coax plug (PL-259)	\$ 2.49
83-TSP	Silver plated coax plug (PL-259)	2.99
(CZL) 401TS	silver plated teflon PL-259	\$ 1.99
83-168-RFX	Reducer; RG-59/RG-8X (UG-176)	.99
83-185-RFX	Reducer for RG-58 (UG-175)	.99
(SHA) PL-259-CP-G	Solderless PL259/RG8X/58	6.99
(SHA) PL-258-CP-G	Solderless splice; RG8X/58	9.99
83-1AP	Right angle adaptor (UG-646)	12.99
83-1J	Double female adaptor (PL-258)	9.99
83-1R	Female chassis mt socket (SO-239)	4.99
83-1T	T-connector adaptor (M-358)	14.99

## Connectors - continued AES Price

83-877	Double male adaptor	24.99
83-878	Single hole 3/8" chassis socket	6.99
31-002	BNC male connector for RG-58	5.99
31-012	BNC male connector; RG-59/RG-8X	9.99
31-221	BNC female chassis socket	2.99
82-24	Type N female chassis mt socket	9.99
82-64	Type N right angle adaptor	22.99
(CAB) 6633S	Type N male; 8214/9913/9913F	6.99
82-202-1006	Type N male; 8214/9913/9913F	8.99
34025	Type N male connector for RG-58	11.99

### AMPHENOL COAX ADAPTORS (AMP)

2900	SO-239 to BNC male adaptor	\$ 16.99
4400	SO-239 to type N male adaptor	18.99
31-28	BNC female to PL-259 adaptor	19.99
(HOU) SMA-872	SO-239 to SMA plug adaptor	5.99

### AIM CONNECTORS, PLUGS & ADAPTORS (AIM)

25-7365	BNC female to SO-239	\$ 3.99
25-7420	BNC male to SO-239	3.99
26-8010	Type N double female	4.99
26-8011	Type N chassis mount	3.99
26-8014	N female to PL-259	4.99
26-8015	N male to SO-239	5.99
26-8016	BNC female to N male	6.99
26-8017	BNC male to N female	4.99
27-8120	BNC female to PL-259	3.99
27-8130	BNC double male	3.99
27-8140	BNC T; 2 female, 1 male	2.99
27-8150	BNC right angle adapter	3.99
27-8470	Dual BNC chassis mount	2.99
29-3855	BNC female to SMA male	4.99
29-4140	SO-239 to mini PL-259	3.99
CPAD-207	Chassis mt SO-239 double female	5.99
CPAD-556M	Dual BNC chassis mount	4.99
CPAD-809	BNC female to N male	4.99

### VANCO MICROPHONE CONNECTORS (VCO)

CBC-4	4-pin female mic plug	\$ 4.99
CBC-5	5-pin female mic plug	3.99
CBC-6	6-pin female mic plug	4.99
(PHI) 61-608B	8-pin female mic plug	4.99
CBC-8P	Panel mt 8-pin male	5.99

### KENWOOD DIN PLUGS (KEN)

7-pin DIN plug	\$ 4.99
8-pin DIN plug	6.99
13-pin DIN plug	9.99

### VANCO Mic Holders/Mini Plugs/Cig Plugs (VCO)

MH-1	Magnetic mic holder	\$ 2.99
MH-2	Regular mic holder	1.49
P-12R	2-contact cigarette plug	2.99
P-12V	Cig lighter plug w/leads	2.99
P-12X	Solderless cig lighter plug	1.99
P-35	3.5mm miniature phone plug	.69
P-212	2-outlet cigarette plug adapter	4.99
P-212B	Dual cigarette lighter socket adapter	8.99
(DAL) 15-0293	3.5mm mono phone plug	.19
(HOU) AP-115	3/8" metal stereo plug	1.99
(HOU) AP-135	3.5mm stereo mini phone plug	.69
(HOU) VCC-6B	20 pack of cable clips; RG6/8X	.69

## Connect Systems (CSY)

CS-800	Desk duplex interconnect/rptr controller	\$ 279.99
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## CROSS DEVICES (CRS)

STUF	Coax connector waterproofing filler	\$ 5.99
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## CUSHCRAFT (CUS)

At Cushcraft's request, amateur radio dealers are not authorized warranty depots for Cushcraft Antennas. All warranty issues should be directed to the Technical Support Department/Warranty at Cushcraft (603) 627-7877.

### VHF/UHF FM BEAMS\* (Vertical polarization)

A148-3S	2m, 3 el wideband beam, 7.8db	\$ 77.99
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## Cushcraft - continued AES Price

A148-10S	2m, 10 el wideband beam, 13.2db	124.99
A449-6S	440 MHz, 6 el, 3' boom, 10 db	73.99
A449-11S	440 MHz, 11 el, 4.5' boom, 13 db	99.99
*Antennas can be mounted vertically or horizontally!		
<b>2M/440 FM BEAMS* (Vertical polarization)</b>		
A270-6S	2m/440, 3/3 el, 2.8' boom, 7.8 db	\$ 99.99
A270-10S	2m/440, 5/5 el, 6.17' boom, 10 db	129.99
*Antennas can be mounted vertically or horizontally!		
<b>TRI-BAND 6M/2M/440 BEAM</b>		
A6270-13S	6m/2m/440, 3/5/5el, 8.66'bm, 8/10/10db	\$ 249.99

### FM RINGOS - 1/2 Wave Verticals

AR-10	10m FM Ringo, 17.6', 3db, 1000w	\$ 99.99
AR-6	6m FM Ringo, 10.1', 3db, 1000w	99.99
AR-2	2m FM Ringo, 3.9', 3db, 1000w	59.99
AR-450	440MHz FM Ringo, 1.4', 3db, 500w	45.99

### RINGO RANGERS - FM Verticals

ARX-2	2m FM Ringo Ranger, 9.3', 5db, 1000w	\$ 69.99
ARX-2B	2m FM Ringo Ranger II, 14', 7db, 1000w	84.99
ARX-220B	220 FM Ringo Ranger II, 9.3', 7db, 500w	84.99
ARX-450B	440FM Ringo Ranger II, 4.9', 7db, 500w	84.99

### DUAL-BAND 2M/440 FM RINGOS

AR-270	2m/440MHz FM, 3.75', 3/5.5db, 250w	\$ 114.99
AR-270B	2m/440 MHz FM, 7.7', 5.5/7.5db, 250w	124.99

### TWIST, OSCAR BEAM (Horiz/Vert Polarization)

A148-20T	2m 20el 10.8'boom 13db twist	\$ 174.99
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### BOOMER ANTENNAS

124WB	2m Boomer, 4 el, 4' boom, 10.2 db	\$ 109.99
13B2	2m Boomer, 13 el, 15' boom, 15.8 db	199.99
17B2	2m Boomer, 17 el, 31' boom, 18 db	299.99
26B2	2 13B2s vertically stacked	499.99
224WB	220 Boomer, 4 el, 3' boom, 10.2db	96.99
719B	432 19 el 13.5' boom 15.5db	189.99

### BOOMER POWER DIVIDERS

PD-2	Power divider for 2 13B2s	\$ 71.99
PD-4	Power divider for 4 13B2s	89.99

### VHF/UHF BEAMS\* (Horizontal polarization)

A50-3S	6m, 3 el, 6' boom, 8 db, stainless hdwre	\$ 139.99
A50-5S	6m, 5 el, 12' boom, 10 db, stainless hdwre	219.99
A50-6S	6m, 6 el, 20' boom, 11db, stainless hdwre	349.99
A148-10S	2m, 10 el wideband beam, 13.2db	124.99
A430-11S	430 MHz, 11 el, 4' boom, 13 db	99.99

\*Antennas can be mounted vertically or horizontally!

### MONO-BAND MOBILE ANTENNAS

CS-28M	10m magnet mt antenna	D \$ 39.99
CS-50M	6m magnet mt 3 db antenna	D 39.99
CS-147A	2m coil & whip only	D 29.99
CS-147M	2m magnet mt 3 db antenna	D 49.99
CS-220M	220 magnet mt 3 db antenna	D 39.99
CS-450M	440 magnet mt 5 db antenna	D 39.99

### DUAL-BAND 2M/440 MOBILE ANTENNAS

CS-270A	2m/440 coil & whip only	D \$ 39.99
CS-270M	2m/440 3.7/6 db magnet mt ant	D 59.99

### MOUNTS ONLY FOR MOBILE ANTENNAS

CS-MG	Magnetic mount	D \$ 29.99
CS-MGN	Magnetic mount w/N connector	D 19.99
CS-TL	Trunk lip mount	D 19.99

### MULTIBAND HF VERTICAL ANTENNAS

MA-5VA	20/17/15/12/10m 14.7' vertical ant	\$ 259.99
MA-6VA	20/17/15/12/10/6m 14.7' vertical ant	319.99
MA-160V	160m 36' vertical ant w/radials	249.99
MA-8040V	80/40m 27' vertical antenna	259.99
R-6000	20/17/15/12/10/6m 19' vertical	369.99
R-8	40/30/20/17/15/12/10/6m 28.5' vert	539.99
R-86K	Guy kit for R-8	56.99

### ROTATABLE HF DIPOLES

D-3	20/15/10m World Ranger rotatable dipole	\$ 299.99
D-3W	30/17/12m rotatable dipole	299.99
D-4	40/20/15/10m World Ranger rotatable dipole	419.99



## Cushcraft - continued AES Price

D-40 40m World Ranger rotatable dipole .....	369.99
<b>BIG THUNDER HF TRI-BAND BEAM</b>	
X-7 20/15/10m, 7 el, 18' boom, 12.5/13db ..	\$799.99
X-740 40m add-on kit for X-7 .....	349.99
<b>BIG THUNDER HF MONOBAND BEAM</b>	
XM-240 40m, 2 el, 22' boom, 6 db .....	\$829.99
TEN-3 10m, 3 el, 8' boom, 8 db .....	249.99
<b>MULTIBAND HF BEAM ANTENNAS</b>	
A-3S 20/15/10m, 3el, 14'bm, 8db, stainless hdwr	\$549.99
A-743 40m or 30m add-on kit; A-3/A-3S ...	199.99
A-4S 20/15/10m, 4el, 18'bm, 8.9db, stainless hdwre	649.99
A-744 40m or 30m add-on kit; A-4/A-4S ...	199.99
A-3WS 17 & 12m, 3 el, 14' boom, 8 db .....	429.99
A-103 30m add-on kit for A-3WS .....	199.99
ASL-2010 13.5-32MHz 8el 18' bm 6.4db LP ..	899.99
MA-5B 20/17/15/12/10m 7.3' boom mini beam	399.99
<b>LIGHTNING ARRESTORS</b>	
LAC-4 200w SO-239 gas tube arrester .....	\$ 64.99
LAC-4H 2kw SO-239 gas tube arrester .....	70.99
LAC-4N 200w type N gas tube arrester .....	79.99
LAC-4NH 2kw type N gas tube arrester .....	84.99
LC-2 Extra 200w cartridge for LAC-4/4N ...	19.99
LC-2KW Extra 2kw cartridge for LAC-4H/4NH	22.99
5VB Vinyl connector boots .....pack of 5	15.99
<b>DCI (DCI)</b>	
145-2H 2m 144-146MHz 200w bandpass filter	\$169.99
146-4H 2m 144-148MHz 200w bandpass filter	169.99
223.5-3H 222-225MHz 200w bandpass filter Δ	149.99
2m/220 models w/N connectors add \$10 special order	
435-10C 430-440MHz 200w N bandpass filt	189.99
445-10C 440-450MHz 200w N bandpass filt	189.99
146/444-DB 144-148/438-450 200w bp filter	239.99
<b>DAIWA (DAI)</b>	
CN-101 1.8-150 15/150/1.5kw SWR/pwr meter/light	\$ 99.99
CN-103M 140-525 20/200w SWR/power meter	99.99
CN-103N 140-525 20/200w N SWR/pwr meter	109.99
CN-801HP 1.8-200 20/200/2kw SWR/PEP pwr	159.99
CN-801SI 900-2.5GHz 200mw/2/20w N SWR/pwr	269.99
CN-801V 140-525 20/200w SWR/power meter	154.99
CS-201 2-position 600MHz coax switch .....	32.99
CS-201GII 2-position 2GHz N coax switch ....	48.99
SS-330W Variable 30A switch ps/fan/meters	169.99
SS-505 Variable 50A switch ps/fan/meter/3-outputs	399.99
<b>DAVIS (DAV)</b>	
6152 Wireless Vantage Pro2 weather station ..	\$539.99
7400 Perception II indoor weather unit .....	79.99
7425 Wizard III weather station .....	179.99
7852 Rain Collector II, 0.01" .....	69.99
7866 Weatherlink Mac interface/software ..D	19.99
7870 Modem adapter for 7862/7866 ....D	19
7867 Weatherlink Mac to Win conv kit ....D	19
7868 Weatherlink Win to Mac conv kit ....D	19
7873 Cig lighter power cord .....	3.99
7876-040 4-conductor 40' extension cbl Δ	4.99
7878-040 6-conductor 40' extension cbl Δ	5.99
7881 8-conductor 50' junction box cable Δ	5.99
7882 8-conductor 100' junction box cbl Δ	9.99
7890 Mast mount for anemometer .....	1.99
0131 Weather forecasting quick reference card	9.99
0276 WindScribe electronic wind/temp indicator	99.99
0281 Wind Wizard handheld wind indicator ..	49.99
<b>DIAMOND (DIA)</b>	
<b>SWR/POWER METERS</b>	
SX-20C HF/6m/2m 30/300w meter .....	\$ 89.99
SX-40C 144-470 (220 w/correction) 30/300w	79.99
SX-100 1.6-60 MHz 30/300/3kw PEP meter ..	134.99
SX-200 1.8-200 MHz 5/20/200w PEP meter ..	94.99

## Diamond - continued AES Price

SX-400 140-525 MHz 5/20/200w PEP meter ..	114.99
SX-600 Dual band 1.8-160/140-525 200w PEP mtr ..	169.99
SX-1000 1.8-160/430-1300MHz 200w PEP meter ..	214.99
<b>HT &amp; HANDHELD SCANNER ANTENNAS</b>	
MAY-1000 2el 120-500MHz handheld beam D	\$ 99.99
RH-3 2m/440 1.75" BNC mini HT duck .....	29.99
RH-77CA 2m/440 15" BNC rubber gain ant ..	24.99
RH-205 2m 3/4 wave 47.5" BNC telescopic ant	29.99
RH-519 2m/440 8" BNC flexible whip .....	29.99
RH-707 2m/440 8 1/2" BNC tilttable whip .....	33.99
RH-789 93-1100MHz adjustable freq BNC ant	34.99
RH-951S 2m/440/1.2GHz 14" BNC slim duck	44.99
RHF-40 2m/440 15" BNC flexible rubber gain ant	29.99
SRH-77CA 2m/440 15" SMA rubber gain ant	24.99
SRH-320A 2m/220/440 13.75" SMA flex whip	49.99
SRH-519 2m/440 8" SMA flexible whip .....	27.99
SRH-789 93-1100MHz adjustable freq SMA ant	34.99
SRH-805 2m/440/1.2GHz 1.75" SMA ant .....	28.99
SRH-815 2m/440/1.2GHz 6" SMA flex whip ..	36.99
SRH-940 6m/2m/440 18" SMA flexible whip ..	39.99
SRH-999 6m/2m/440/1.2GHz 20" SMA flex whip	59.99
SRHF-40 2m/440 15" SMA flexible rubber gain ant	29.99
<b>MONO-BAND MOBILE ANTENNAS</b>	
HF-6FX 6m 2.15db 44" mobile antenna .....	\$ 69.99
HF-50CX 6m 3.5db 71" mobile antenna .....	99.99
M-285 2m 3.4db 52.4" mobile antenna .....	31.99
M-285SNMO 2m 3.4db 52.4" NMO mobile ant	31.99
M-685 6m 2.15db 52.4" mobile antenna .....	31.99
M-685SNMO 6m 2.15db 52.4" NMO mobile ant	31.99
MG-200 2.4GHz 7db 23.6" N mobile ant .....	69.99
NR-22L 2m 6.5db 96.8" mobile antenna .....	69.99
NR-124NMO 1.2GHz 8.4db 25" NMO antenna	64.99
NR-140BNMO Black 220 4db 37" NMO ant ..	53.99
<b>DUAL-BAND MOBILE ANTENNAS</b>	
CR-270A 2m/440 2.15/3.4db 17.2" mobile ant	\$ 42.99
MR-77 2m/440 2.15/3.4db 20" magnetic ant	39.99
NR-77SMA 2m/440 2.15/3.4db 20" mag w/SMA	44.99
NR-72BNMO Black 2m/440 2.15db 14" NMO	44.99
NR-73BNMO Blk 2m/440 2.15/5.5db 34" NMO	57.99
NR-770HA 2m/440 3/5.5db 40" mobile ant ..	56.99
NR-770HB Black 2m/440 3/5.5db 40" mobile	59.99
NR-770HNMO 2m/440 3/5.5db 40" NMO mobile	59.99
NR-770HBNMO Blk 2m/440 3/5.5db 40" NMO	64.99
NR-770HRKS 2m/440 3/5.5db 40" adhesive mt	109.99
NR-7900A 2m/440 3/7.6/4db 57" hi pwr mob ant	84.99
SG-M510 2m/440 2.15/5.5db 37" mob ant D	49.99
SG-7000A 2m/440 2.15/3.8db 19" mobile ....	69.99
SG-7500A 2m/440 3.5/6db 41" mobile ant ...	77.99
SG-7500NMO 2m/440 3.5/6db 41" NMO ant ..	79.99
SG-7900A 2m/440 5/7.6db 62" mobile ant ...	109.99
SG-7900ANMO 2m/440 5/7.6db 62" NMO ant	114.99
K-400CNMO Hatch/trnk mt/coax; SG7900ANMO	69.99
<b>TRI-BAND MOBILE ANTENNAS</b>	
CR-320A 2m/220/440 2.15/3.8/5.5db 36" ....	\$ 89.99
CR-320BNMO Black 2m/220/440 36" NMO ant	89.99
CR-627B 6m/2m/440 2.15/4.5/7.2db 60" ant	99.99
CR-627BNMO 6m/2m/440 2.15/4.5/7.2db 60"	99.99
HV-7A 10/6/2m/440 54" UHF mount mobile ant	109.99
HVC-7 40m loading coil for HV-7A/MV-3A ..	44.99
HVC-14 20m loading coil for HV-7A/MV-3A	37.99
HVC-18 17m loading coil for HV-7A/MV-3A	37.99
HVC-21 15m loading coil for HV-7A/MV-3A	37.99
NR-2000NA 2m/440/1.2 3.15/6.3/9.7db 39" N mob	89.99
SG-M911 6m/2m/440 2.15/3.5/8db 41" mob D	59.99
<b>QUAD-BAND MOBILE ANTENNAS</b>	
CR-8900A 10m/6m/2m/440 0/0/2.15/5.5db 50"	\$ 99.99
D-220 2m/440/900/1.2G 35.5" mobile discone	109.99
<b>ADHESIVE BACKED MOBILE MOUNT</b>	
HRKS SO239 mt/13' coax/SMA/PL259 adapter	\$ 69.99

## Diamond - continued AES Price

<b>MAGNET MOUNTS</b>	
DPK-4NM-N Hvy dty mag mt, cbl, N, 45" max	\$ 54.99
K-702M Hvy duty mag mt, 6 3/8" dia, 50" max	49.99
SPM-35 Hvy duty mag mt, cable, 45" max ....	44.99
SPM-NMO Hvy dty NMO mag mt, cbl, 45" max	49.99
<b>TRUNK LIP MOUNTING KITS</b>	
K-400 Hatch/trunk mt; NR/SG antennas .....	\$ 39.99
K-400C Hatch/trunk mt w/coax; UHF mount ..	73.99
K-400CNMO Hatch/trunk mt w/coax; NMO mt	73.99
K-400S Hatch/trunk mt w/coax; UHF mt/SMA	79.99
K-400SNMO Hatch/trunk mt w/coax; UHF/SMA	79.99
K-400-3/8C Trunk mount w/6.5' cable; 3/8-24	73.99
K-412C Light duty hatch/trnk mt w/coax; UHF mt	64.99
K-412CNMO Light duty hatch/trnk mt w/coax; NMO	64.99
K-412S Light duty hatch/trnk mt w/coax; UHF/SMA	69.99
K-412SNMO Lt duty hatch/trnk mt/coax; NMO/SMA	69.99
C-110 10' extension cable for K-412 mts ..	19.99
K-600M Tilt angle SO-239 trunk mt w/cable ..	57.99
K-600S Tilt angle SO-239 tnk mt w/cable/SMA	62.99
K-604M Tilt angle trunk mt w/flexible cable D	14.99
K-9000LRM Motorized luggage rack mount ..	109.99
K-9000LRMO Motor lug rack mt; o/s hardware	109.99
K-9000TM Motorized trunk/hatchback mt .....	109.99
<b>MIRROR &amp; LUGGAGE RACK MOUNTS &amp; KITS</b>	
K-515S Lug rack SO-239 mt; new type SUV/SMA	\$ 69.99
K-515SNMO Lug rack NMO mt; new type SUV/SMA	69.99
K-540 Mirror/luggage rack mt; under 45" .....	35.99
K-540KM Mirror/luggage rack mt w/coax .....	59.99
K-550* Luggage mt; new mini vans (use GLP)	44.99
K-550KM* Luggage mt w/SO-239 base/coax	69.99
*K-550 series not recommended for Yae ATAS-100/120	
<b>MOUNTING GROUP HARDWARE</b>	
BNCF-SMAP Low prof blk BNC-F to SMA-M adapt	\$ 9.99
C-101 SO-239 mt, 6.5' RG-316 low-loss coax	37.99
C-101-3/8C Extra cable assembly; K400-3/8C	34.99
C-101-3/8C-KIT Upgrades any K400 to K400-3/8C	44.99
C-101NMO NMO mt, 6.5' RG-316 low-loss coax	37.99
C-104SMA 4' RG-58 ext cbl; SMA male & SO-239	16.99
C-105SMA 5' RG-58 ext cable; C-101/SMA male	16.99
C-110 10' ext cable; C-101/K-601/K-400-3/8C	19.99
C-110BNC 10' extension cable to BNC male ..	29.99
C-110SMA 10' RG-58 ext cable; C-101/SMA male	29.99
C-211 SO-239 mt, 6.5' coax, 10' coax extend	49.99
C-213 SO-239 mt, 13.5' RG-316 low-loss coax	44.99
C-213NMO NMO mt, 13.5' RG-316 low-loss coax	44.99
CRM Stainless steel right angle bracket w/U-bolts	16.99
NMO/UHF-B Black NMO to UHF adapter .....	14.99
<b>MONO-BAND BASE STATION ANTENNAS</b>	
A-144S5 2m 5 el 37.5" boom 9db beam .....	\$ 59.99
KB-144 Side mounting bracket/hardware ..	24.99
A-430S10 430 10 el 43" boom 13db beam ....	69.99
KB-430 Side mounting bracket/hardware ..	22.99
A-430S15 430 15 el 89" boom 14.8db beam ..	89.99
A-502HB 6m 2 el 2.6' boom 6.3db beam .....	99.99
BC-200 430-490MHz tunable 6.5db 5.6' base	99.99
CP-22E 2m 6.5db 9' base antenna .....	54.99
DP-GH62 6m 6db 21' base antenna .....	199.99
F-22A 2m 6.7db 10.5' base antenna .....	99.99
F-23A 2m 7.8db 15' base antenna .....	129.99
F-23H 2m 7.8db 15' base antenna .....	147.99
F-718A 440 11.5db 15' type N base antenna	199.99
F-1230AII 1.2GHz 13.1db 12" N base ant ....	179.99
G-200 2.4GHz 11db 6' N base antenna .....	139.99
2400-Y12 2.4GHz 12db 8el 15"bm 25w N beam Δ	79.99
<b>DUAL-BAND BASE STATION ANTENNAS</b>	
X-30A 2m/440 3/5.5db 4.5' base antenna ....	\$ 69.99
X-50A 2m/440 4.5/7.2db 5.6' base antenna ..	99.99
X-50NA 2m/440 4.5/7.2db 5.6' base N ant ...	104.99
X-200A 2m/440 6/8db 8.3' base antenna .....	124.99
X-300A 2m/440 6.5/9db 10' base antenna ...	149.99



## Diamond - continued AES Price

X-300NA	2m/440 6.5/9db 10' base N ant	149.99
X-510HDM	2m/440 8.3/11.7db 17.2' hi pwr ant	219.99
X-500HNA	Hvy duty 2m/440 8.3/11.7db 17.8' N ant	289.99
X-510HDM	2m/440 8.3/11.7db 17.2' hi pwr N ant	219.99
X-510NA	2m/440 8.3/11.7db 17.2' type N ant	199.99
X-510NJ	143.5-146.5/428-442 8.3/11.7db 17.2' N	199.99
X-700HNA	2m/440 9.3/13db 24' type N ant	389.99

## TRI-BAND BASE STATION ANTENNAS

D-130J	50-1300 MHz 200w discone antenna	\$ 99.99
D-130NJ	50-1300 MHz 200w N discone ant	99.99
V-2000A	52-54MHz/2m/440 2.1/6.2/8.4db 8.3'	179.99
X-3200A	2m/220/440 6/7.8/8db 10' base	189.99
X-6000A	2m/440/1.2 6.5/9/10db 10.5' N	209.99
BB-7V	2-30MHz 22' no radial vertical (use tuner)	399.99
CP-5H	40/20/15/10/6m 11.8' trap vert/radials	399.99
CP-725H	40/15/10/6m 11.67' trap vert/radials	359.99

## DUPLEXERS & TRIPLEXERS

MX-37	440/1200MHz N/N duplexer w/cable	\$ 59.99
MX-62M	HF-6m & 2m/440, 12" cables dplx	74.99
MX-72A	HF-2m/440 dplx/440 N female, 12" cbls	54.99
MX-72D	HF-2m/440 400/150/100w duplexer	48.99
MX-72H	HF-2m/440 duplexer w/12" cables	54.99
MX-72N	HF-2m/440 dplx, 440 type N male, 12" cbls	54.99
MX-324	2m/220/440 triplexer	89.99
MX-610	HF/6m-UHF duplexer	69.99
MX-3000	HF-6m/2m/440 400/400/250w triplexer	89.99
MX-2000	HF-2m/440/1.2 400/200/100w triplexer	79.99
MX-3000N	HF-2m/440/1.2 400/200/100w N triplexer	85.99

## ACCESSORIES

CA-23RP	2500MHz 200w N-F/N-M lightning protect	\$ 41.99
CA-23RS	2500MHz 200w N lightning protector	39.99
CA-23RW	2500MHz 200w N waterproof protector	44.99
CA-35R	1000MHz 400w lightning protector D	29.99
CA-35RPW	1000MHz 400w waterproof protector	39.99
CX-210A	1.5kw DC-1GHz 2-pos coax switch	44.99
CX-210N	1.5kw DC-3GHz 2-pos N coax switch	74.99
CX-310A	HD 3-pos DC-800MHz coax switch	84.99
DL-30A	15/100w peak 0-500MHz dummy load D	39.99
DL-30N	15/100w peak 0-500MHz N dummy load	39.99
GZV-4000	Variable 40A switching ps/meter/spkr	179.99
PC-3	10' DC cable w/T-connector for mob rig	11.99

## DYNAMITE (DYN)

1000	Dyna-Sport 1500mah 6-cell flat nicad	\$ 3.99
4010	Mega 1 AC/DC quick charger	4.99
4046	Vision Peak Plus AC/DC peak charger	24.99

## ECG (ECG)

U-105	Light duty antenna rotor/3-wire	\$ 69.99
U-106	Light duty ant rotor/presets/IR rem/3-wire	89.99
TB-105	Thrust bearing for U-105/U-106	18.99

## ESP (ESP)

ESP-1	Microphone audio processor	D \$169.99
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## EASY-UP (UPS OK) (EAS)

EZ 5-16	5' 16 ga steel mast .....pick-up only	\$ 16.99
EZ 29-24S	Stainless double strap chimney mt	29.99
EZ 30-24	Dlx wall mt w/extra 3rd leg support	39.99
EZ 31	Heavy duty adjustable eave mount	34.99
EZ 48-3ABX	3' boxed tripod w/pitch pad kit	49.99
EZ 48-5ABX	5' boxed tripod w/pitch pad kit	69.99

## ELK Antennas (ELK)

2M/440-L5	2m/440 5el quick assembly LP beam	\$ 98.99
220-L6	220 6el quick assembly LP beam	89.99
440-L8	440 8el quick assembly LP beam	89.99
Elk Bag	Canvas carrying bag for Elk antenna	24.99

## GAP VERTICALS (GAP)

DX-VIII	Challenger 75*/40/20/15/12/10/6/2m 31.5'	\$339.99
*80m CW w/capacitor exchange from GAP		
Challenger	Counterpoise	39.99

## Gap - continued

(SYN) 100'	3/8" black double braided rope	9.99
DX-VI	Eagle 40/20/17/15/12/10m 21' rigid	369.99
DX-IV	Voyager 160/80/40/20m 45'; use 350' guy	449.99
Voyager	Counterpoise	75.99
(SYN) 350'	3/8" black double braided rope	49.99
Titan DX	75*/40/30/20/17/15/12/10m, 25'	399.99
*80m CW w/capacitor exchange from GAP		
100' Guy Kit	with clamp	17.99
200' Guy Kit	with clamp	26.99
Ground Mount	Quick tilt mt for vertical ant	89.99
Ladder Mount	Quick tilt mt; campers/RVs	89.99
Hear It	DSP noise eliminating speaker	169.99
In Line Module	Hear It DSP in line noise elim	219.99

## GB (GBX)

OX-400	4 oz anti-corrosion compound for ants	\$ 14.99
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## GRE (GRE)

PSR-100	Standard handheld scanner	\$ 99.99
PSR-300	Triple trunking handheld scanner	199.99
PSR-500	Digital triple trunking handheld scanner	499.99
PSR-200	Standard mobile/desktop scanner	99.99
PSR-400	Triple trunking mobile/desktop scanner	199.99
PSR-600	Digital triple trunking mob/desk scanner	499.99

## GARMIN (GAR)

GPS-60	GPS w/1MB internal memory	Δ \$129.99
GPS-MAP60	GPS w/24MB internal memory	Δ 189.99
010-10117-02	Carrying case	Δ 4.99
GA-27C	Low prof rem ant/cbl; GPS-12CX/XL	Δ 59.99
010-10048-00	Mounting bkt; 12CX/XL	Δ 2.99
010-10082-00	Power/data cable; GPS-72	Δ 16.99
010-10085-00	Cig lighter cable; GPS-72	Δ 12.99
010-10141-00	PC interface cable; GPS-72	Δ 19.99
010-10165-00	PC cable/cig adapt; GPS-72	Δ 24.99
010-10203-00	Cig cbl; eMAP & eTRES	Δ 16.99
010-10205-00	Data cable; eMAP/eTRES	Δ 12.99
010-10206-00	PC interface cbl; eMAP/eTRES	Δ 16.99
010-10227-00	Blank 8MB mem cartridge	Δ 2.99
010-10468-00	MapSource MetroGuide CD	D 39.99
cfQue-1620	GPS module for Pocket PC's	Δ 119.99
Foretrex 101	Wrist GPS	Δ 99.99
Forerunner 201	Wrist GPS/personal trainer	Δ 139.99
GPS-18PC Dlx	GPS sensor; laptop/serial/mag/soft	Δ 99.99
GPS-18USB Dlx	GPS sensor; laptop/USB/mag/soft	Δ 99.99
iQue-3600	Handheld PDA w/integrated GPS	D 299.99
GA-27C	Low prof remote ant/cbl; iQue-3600	Δ 59.99
Rino-120	GPS/FRS/GMRS w/8mb mem/basemap	Δ 149.99
010-10117-02	Carrying case; Rino-120	Δ 4.99

## GEAR KEEPER (GEA)

RT2-4012	Hvy duty Mic Keeper w/snap clip	Δ \$ 12.99
RT3-4653	Locking HT Gear Keeper/swivel belt clip	Δ 12.99

## GLEN MARTIN (GME)

### TOWERS

M-13A	13" wide alum 10' tower section	T \$268.99
CHB-13	Footing assembly for M-13	129.99
CM-1300	Center mount for M-13	39.99
FB-13	Fixed base for M-13	134.99
HB-13	Hinge base for M-13	198.99
H-5	Aluminum Hazer system for M-13	447.99
M-18A	18" wide alum 10' tower section	T 314.99
CHB-18	Footing assembly for M-18	142.99
FB-18	Fixed base for M-18	173.99
HB-18	Hinge base for M-18	299.99
H-6	Aluminum Hazer system for M-18	487.99

### TOWER PACKAGES

M-1330A	30' alum tower package w/Hazer	T 1864.99
M-1340A	40' alum tower package w/Hazer	T 2106.99
M-1350A	50' alum tower package w/Hazer	T 2349.99
M-1840A	40' alum tower package w/Hazer	T 2415.99

## Glen Martin - continued AES Price

M-1850A	50' alum tower package w/Hazer	T 2699.99
KB-1000	57" side arm; M-13 series	94.99
KB-1300	57" side arm; M-18 series	97.99
ML-1800	Messenger line kit for GME towers	83.99

### ROOF-TOP TOWERS

RT-424	4.5' roof-top tower, anodized aluminum	\$189.99
RT-832	8' roof-top tower, anodized aluminum	279.99
RT-936	9' roof-top tower, anodized aluminum	459.99
RT-1832	17.5' roof-top tower, anodized aluminum	614.99
RT-2632	26' roof-top tower, anodized aluminum	999.99
EL-3744	Concrete L-bolts, set of 8	17.99
LB-3755	Lag bolts, set of 8 (3/8 x 5")	11.99
MC-10	Mast clamp; aluminum, 2 required	28.99
RA-6024	24" side arm for roof towers	48.99
RA-6048	48" side arm for roof towers	64.99
RT-5505	Rubber mat, 18" x 48"	32.99
RT-8900	Non-penetrating roof mount base	524.99
TB-25	Premium thrust bearing	64.99

### HAZERS FOR ROHN TOWERS

H-2	Heavy duty aluminum Hazer system	\$416.99
H-3	Standard duty aluminum Hazer system	316.99
H-4	Heavy duty galv steel Hazer system	399.99
BW-8001	Brake winch for H-2/3/4	93.99
HR-2040	Roller bearing set for Hazers	72.99
HR-6010	T'X plates for H-2/3/4/5	30.99
HS-1301	36" side arm for Hazers	74.99
ML-2500	Messenger line kit for Rohn towers	89.99

### LIGHTNING PROTECTION

LR-8400	Premium lightning rod kit	\$114.99
GR-4400	Ground rod wire clamp	8.99
GR-5080	8' x 3/8" ground rod	23.99
LR-8418	Lightning rod point, 1/2" x 18"	45.99
LR-8451	Clamp for holding rod to 1 1/2" mast	28.99
LR-8452	Clamp for holding rod to 2" mast	29.99
TL-0470	Terminal lug	2.99

### MASTS

M-1040	10' x 2" OD heavy duty galv steel mast	T \$ 92.99
M-1049	9' x 2" OD heavy duty galv steel mast	87.99
MA-1040	10' x 1.92" OD medium duty alum mast	T 103.99
MA-1049	9' x 1.92" OD medium duty alum mast	98.99
MA-1050	5' x 2" OD medium duty alum mast	67.99
MA-2010	10' x 2.375" OD heavy duty alum mast	T 120.99
MA-2069	9' x 2.375" OD heavy duty alum mast	109.99
MA-5050	5' x 1.31" OD light duty alum mast	45.99
MP-1409	9' heavy duty fiberglass mast	142.99

### TOWER CLIMBING EQUIPMENT

FP-56222	MB/LC/2-D/B-C/S-L harness	\$ 85.99
FP-56224	MB/LC/2-D/B-C/L-XL harness	85.99
FP-56422	MB/LC/4-D/B-H-C/S-L harness	99.99
FP-56424	MB/LC/4-D/B-H-C/L-XL harness	99.99
FP-66611	TB/LC/6-D/B-H-C-SD/S harness	246.99
FP-66612	TB/LC/6-D/B-H-C-SD/M harness	246.99
FP-66613	TB/LC/6-D/B-H-C-SD/L harness	246.99
FP-66614	TB/LC/6-D/B-H-C-SD/XL harness	246.99
FP-75421	TB/LC/4-D/B-H-C/S harness	173.99
FP-75422	TB/LC/4-D/B-H-C/M harness	173.99
FP-75423	TB/LC/4-D/B-H-C/L harness	173.99
FP-75424	TB/LC/4-D/B-H-C/XL harness	173.99
FP-26004	1" x 4' web lanyard	26.99
FP-26006	1" x 6' web lanyard	26.99
FP-29002	1" x 2' Centurion lanyard	34.99
FP-29003	1" x 3' Centurion lanyard	35.99
FP-29004	1" x 4' Centurion lanyard	36.99
FP-29006	1" x 6' Centurion lanyard	36.99

All GLEN MARTIN orders are plus freight at Glen Martin's rates direct to you from the factory. You can obtain shipping charges from any AES salesperson by phone or email. There is a \$10 surcharge on all Glen Martin orders under \$120. There is also a \$75 residential address delivery charge on M-13 & M-18 series towers. We prefer payment in full with order, however, we will accept your credit card with the understanding that we will



**Glen Martin - continued AES Price**

process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your order. Please allow sufficient delivery time. Most truck lines will not unload towers, so please be sure to have enough manpower and/or equipment on hand.

**GROTHE (GRO)**

VS-2 Emergency vehicle siren .....	\$ 89.99
VS-2LS/A Window mt siren/amber halogen spec ord	299.99
VS-2LS/B Window mt siren/blue halogen spec ord	299.99
VS-2LS/R Window mt siren/red halogen spec ord	299.99
VS-3 Volunteer vehicle PA/horn w/spkr .....	129.99
VS-4 P/A emergency vehicle siren w/spkr .....	139.99

**GRUNDIG/ETON (GRU)**

E-1 Portable AM/FM/SW/XM* ready rcvr/ps ...	\$499.99
*Subscription, tuner & ant required for XM satellite	
E-100 Portable AM/FM/SW receiver .....	89.99
FR-100 AM/FM/clock/emergency light .....	9.99
FR-250 AM/FM/SW/flashlight/crank/cell cgr ..	49.99
FR-400 AM/FM/WX/TV sound/flashlight/cell cgr Δ	44.99
G-5 Portable AM/FM/SW receiver w/ps .....	149.99
G-6 Portable AM/FM/SW/aircraft receiver w/ps	99.99
G-1100 Pocket AM/FM/SW receiver .....	49.99
G-2000A Porsche design AM/FM/SW Rcvr ...D	39.99
GM-300PE Gray mini AM/FM/SW receiver .....	29.99
GS-350DL Black portable AM/FM/SW Rcvr w/ps	99.99

**HARGER (HRG)**

GBIS18114AE 1/2" copper entrance ground bar kit	\$ 39.99
GBIS18148AE 1/2" copper station ground bar kit	83.99
GEL3AE Package of 5 HD grounding lugs .....	26.99
GP1868.78AE 1/2" copper single pt gnd panel kit	76.99
GBX976AE NEMA-4x weatherproof enclosure	127.99

**HEIL (HEI)**

BM-5-4 Boom mic/single headset (HC-4) ...D	\$ 49.99
BM-5-IC Boom mic/sgl headset/adaptor; lcom D	59.99
BM-10-4 Boom mic/headset (HC-4) .....	110.99
BM-10-5 Boom mic/headset (HC-5) .....	110.99
BM-10-IC Boom mic/headset/adaptor; lcom	130.99
PRO-SET-4 Deluxe boom mic/headset (HC-4)	140.99
PRO-SET-5 Deluxe boom mic/headset (HC-5)	140.99
PRO-SET-IC Dlx boom mic/headset/adaptor; lcom	150.99
PRO-SET-PLUS Dlx boom mic/headset (HC4&5)	215.99
PRO-SET-PLUS-IC Dlx bnm mic/hdset (HC4&5); lco	235.99
PSQP-4 Pro-Set Quiet Phone 4 boom mic/headph D	229.99
PSQP-5 Pro-Set Quiet Phone 5 boom mic/headph D	219.99
PSQP-IC Pro-Set Quiet Phone; lcom bnm mic/headph D	219.99
AD-1-I Pro-Set 8-pin adapter cord for lcom	20.99
AD-1-IC Pro-Set 8-pin adapter cord; lcom	20.99
AD-1-ICM Pro-Set modular adapter cord; lco	20.99
AD-1-IM Pro-Set modular adapter cord; lco	20.99
AD-1-K Pro-Set 8-pin adapt cord; Kenwood	20.99
AD-1-K-M Pro-Set modular adapt cord; Ken	20.99
AD-1-T Pro-Set 4-pin adapt cord; Ten-Tec	20.99
AD-1-Y Pro-Set 8-pin adapter cord; Yaesu	20.99
AD-1-Y-M Pro-Set modular adapt cord; Yae	20.99
HTSS Single side Traveler headset .....	75.99
HTDS Double side Traveler headset .....	95.99
HSTA-IC8 Traveler adapter for lcom 8-pin	23.99
HSTA-IM Traveler adapter; lcom modular	23.99
HSTA-K8 Traveler adapter for Kenwood 8-pin	23.99
HSTA-KM Traveler adapter; Kenwood modular	23.99
HSTA-PC Traveler adapter for computer	23.99
HSTA-YM Traveler adapter for Yaesu modular	23.99
HTA-IHT Traveler adapter for lcom HT	23.99
HTA-KHT Traveler adapter for Kenwood HT	23.99
HTA-VX Traveler adapter; Yaesu VX HT (not VX7)	23.99
GM-4 Goldline dual element studio mic w/HC-4	145.99
GM-5 Goldline dual element studio mic w/HC-5	145.99
HCL-4 Classic 1930's desk mic/studio el & HC-4 Δ	169.99
HCL-5 Classic 1930's desk mic/studio el & HC-5	245.99

**Heil - continued****AES Price**

HM-10-Dual Mic w/HC-4 & HC-5 elements ...	128.99
ICM Pre-PRO lcom electret mic w/cable .....	105.99
CC-1-C 3/8" plug cable for Collins/Drake ...	41.99
CC-1-I 8-pin cable for lcom .....	35.99
CC-1-I-M Modular cable for lcom .....	35.99
CC-1-K 8-pin cable for Kenwood .....	35.99
CC-1-K-M Modular cable for Kenwood .....	35.99
CC-1-T 4-pin cable for Ten-Tec .....	35.99
CC-1-Y 8-pin cable for Yaesu .....	35.99
CC-1-Y-M Modular cable for Yaesu .....	35.99
PL-2T Topless proline boom .....	109.99
DT-1 Desk top flush mount .....	31.99
FL-2 Flange mount for PL-2T .....	25.99
RS-1 Riser 12" flange mount for PL-2T ..	25.99
SB-2 Small adjustable mic boom .....	55.99
HM-4 Handi-Mic hand microphone w/HC-4 ..	85.99
HM-5 Handi-Mic hand microphone w/HC-5 ..	85.99
HM-IC Handi-Mic hand mic/electret element; lco	85.99
HM-PRO Handi-Mic hand mic/broadcast element	85.99
CH-1-I8 8-pin coiled cable for lcom .....	23.99
CH-1-I-M Modular coiled cable for lcom ....	23.99
CH-1-K8 8-pin coiled cable for Kenwood ...	23.99
CH-1-K-M Modular coiled cable for Kenwood	23.99
CH-1-Y-M Modular coiled cable for Yaesu ..	23.99
PR-20 Cardioid dynamic studio microphone	150.99
PR-40 Broadcast & recording studio microphone	325.99
CC-1-XLR-I 3-pin XLR to 8-pin lcom cable	35.99
WSPR-40 Windscreen for PR-40 .....	17.99
PR-781 Dynamic cardioid studio mic .....	179.99
CC-1-XLR-I 3-pin XLR to 8-pin lcom cable	35.99
CC-1-XLR-K 3-pin XLR to 8-pin Kenwood cable	35.99
CC-1-XLR-Y 3-pin XLR to 8-pin Yaesu cable	35.99
WSPR-40 Windscreen .....	17.99
HQP Quiet Phone Noise cancelling headphones	99.99
AD-100 Mic/boomset adapt; FT-100/AD-1Y/CC-1Y	20.99
Boom Clip for BM-series .....	5.99
CB-1 Classic base .....	60.99
CB-1-PTT Classic base w/soft PTT switch ....	70.99
Ear Pads for Pro-Set series .....	6.99
FS-2 Dual switch foot switch .....	38.99
Ham Radio Handbook .....	10.00
HD-AT 6db headph attenuator, 1/2"-1/4" adapt	6.99
HS-2 Magnum ergonomic hand switch .....	29.99
HW-20 20' Heilwire .....	20.99
SM-1 Shock mount for any microphone boom	72.99
TM-1 Tri-mount microphone adapter .....	14.99
XT-1 Audio matching xfmr; lo-Z mic/tube Xcvr	15.99

**HIGH SIERRA (HIS)**

Platinum Pack 3.5-60MHz mobile ant w/6' whip	\$545.00
HS-202CL 2" rcvr lay back adapter; univ mtg bkt	130.00
HS-214CL 1 1/2" rcvr lay back adapt; univ mtg bkt Δ	99.99
i-Box 7000 Box for IC-7000 .....	110.00
Six Shooter Large capacity hat .....	70.00
Sidekick 3.5-60MHz mobile ant w/3' whip ..	395.00
Hitchin Post 3/8-24 trailer hitch mount ....	50.00
i-Box 7000 Box for IC-7000 .....	110.00
Six Shooter Large capacity hat .....	70.00
Stake Hole Mt SO-239 to 3/8-24 mount .....	27.00
Sidekick w/i-box/i-tenna 3.5-60 mob/3' whip; lco	445.00
Hitchin Post 3/8-24 trailer hitch mount ....	50.00
Six Shooter Large capacity hat .....	70.00
Stake Hole Mt SO-239 to 3/8-24 mount .....	27.00
Tripod Deluxe 6' tripod/3/8-24/SO239/8 radials	130.00

**House of Deals (HOU)**

FL-3232T 32 LED/3 D flashlight .....	\$ 24.99
FL-8211B 11 LED/3 AAA head/bike lamp .....	9.99
HS-2005A 9 LED/3 AAA flashlight/wrist strap	6.99

**HUSTLER (HUS)**

RM-80 80m CW 400w PEP resonator .....	\$ 30.99
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**Hustler - continued****AES Price**

RM-75 75m phone 400w PEP resonator .....	30.99
RM-60 60m phone 400w PEP resonator .....	30.99
RM-40 40m 400w PEP resonator .....	28.99
RM-30 30m 400w PEP resonator .....	28.99
RM-20 20m 400w PEP resonator .....	25.99
RM-17 17m 400w PEP resonator .....	25.99
RM-15 15m 400w PEP resonator .....	18.99
RM-12 12m 400w PEP resonator .....	18.99
RM-11 CB 400w PEP resonator .....	18.99
RM-10 10m 400w PEP resonator .....	18.99
RM-80S 80m CW 2kw PEP resonator .....	57.99
RM-75S 75m phone 2kw PEP resonator .....	57.99
RM-40S 40m 2kw PEP resonator .....	41.99
RM-20S 20m 2kw PEP resonator .....	32.99
RM-15S 15m 2kw PEP resonator .....	28.99
RM-11S CB 2kw PEP resonator .....	27.99
RM-10S 10m 2kw PEP resonator .....	27.99
MO-1 54" mast for fender or deck mount .....	36.99
MO-2 54" mast for bumper mount .....	36.99
MO-3 54" no break-over mast .....	27.99
MO-4 22" mast for special applications .....	22.99
VP-1 Tri-band adapter .....	7.99
RSS-2 Resonator spring .....	13.99
QD-2 Stainless quick disconnect .....	24.99
L-14-144 12' RG-58, PL-259 to lugs .....	9.99
L-14-240 20' RG-58, PL-259 to lugs .....	12.99

**STAINLESS 2" MOBILE BALL MOUNTS**

SSM-1 Ball & spring, cadmium hardware .....	\$ 52.99
SSM-2 Ball, cadmium hardware .....	32.99
SSM-3 Stainless steel spring .....	29.99

**1-1/2" MOBILE BALL MOUNTS**

C-32 Chrome plated ball .....	\$ 18.99
C-30 Chrome plated spring .....	14.99
C-29 Stainless steel spring .....	21.99
BM-1 Single strap bumper mt w/C-32 .....	25.99

**3/8-24 THREAD MOBILE MOUNTS**

HLM Trunk lip mount w/swivel .....	\$ 25.99
HOT Hustloff trunk lip mt w/swivel .....	26.99
MBM Super magnet mount w/16' coax .....	22.99
RVM Recreational vehicle mount .....	23.99
TLM Trunk lip mount .....	25.99

**HF ANTENNAS**

4-BTV 40/20/15/10m 21' trap vertical .....	\$149.99
5-BTV 80/40/20/15/10m 25' trap vertical .....	179.99
30-MTK 30m trap kit for 4-BTV/5-BTV .....	47.99
6-BTV 80/40/30/20/15/10m 24' trap vert .....	199.99

**VHF/UHF BASE STATION ANTENNAS**

G3-144 2m 3db 7.5' vertical antenna .....	\$ 74.99
G6-144B 2m 6db 10' vertical antenna .....	139.99
G6-270R 2m/440 6db 7.6' base station ant	199.99
G7-144 2m 7db 15' vertical antenna .....	199.99
G7-220 220 MHz 7db 10' vertical antenna ...	169.99
G6-440 440 MHz 6db 7' vertical antenna .....	179.99

**VHF/UHF MOBILE ANTENNAS**

BBG-144 2m 3.4db NMO coil/whip only .....	\$ 49.99
BBGT-144 2m 3.4db NMO trunk lip mt ant ...	56.99
BBG-440-5 440 5db NMO coil/whip only .....	49.99
BBGT-440-5 440 5db NMO trunk lip mt ant ..	49.99
BBL-144A 2m 3/4" hole mt antenna, 3.4db ΔD	9.99
CG-144 2m 3/4-24 ant, 7' high, 5.2db .....	36.99
CGT-144 2m trunk mt ant, 7' high, 5.2db ....	59.99
CG-220 220 MHz 3/4-24 ant, 5.2db .....	36.99
CGT-220 220 trunk mt ant, 5.2db .....	59.99
LMB-144 2m 3.4db black NMO coil/whip only	23.99
LMB-440-5 440 5db black NMO coil/whip only	25.99
LMC-144 2m 3.4db NMO coil/whip only .....	25.99
LMC-270 2m/440 2.4/4db NMO coil/whip only	34.99
LMC-440-5 440 5db NMO coil/whip only .....	25.99
LMG-144 2m 3.4db NMO pushpin coil/whip only	27.99
LMG-440-5 440 5db NMO pushpin coil/whip only	24.99



## Hustler - continued

### AES Price

MKR-2	Radial kit for CG/RX/SF-antennas	23.99
MX-2	2m 3.4db black & chrome NMO mag ant	37.99
MX-2B	2m 3.4db all black NMO mag mt ant	42.99
MX-220	220 3.4db blk & chrome NMO mag ant	37.99
MX-270	2m/440 2.4/4db chrome NMO mag mt ant	63.99
MX-440	440 5db blk & chrome NMO mag mt ant	49.99
MX-440B	440 5db all black NMO mag mt ant	49.99
RX-2	2m 3.4db magnetic mount ant	28.99
RX-220	220 3.4db magnetic mt antenna	28.99
RX-440	440 5db magnetic mt antenna	28.99
SF-2	2m 3/4-24 ant, 4' high, 3.4 db	17.99
SF-220	220 MHz 3/4-24 antenna, 3.4 db	17.99
THF	140-500 MHz 1/2 wave trunk mount ant	25.99
UGM	140-500 MHz 1/2 wave BNC mag mt ant	23.99
UHT-1	140-500 MHz 1/2 wave roof mt ant	17.99

## CB & MONITOR ANTENNAS

1C-11	White trunk mount CB antenna	\$ 14.99
1C-11B	Black trunk mt CB antenna	14.99
1C-56	102" stainless whip .....pick-up only	19.99
1C-100	White magnetic mount CB antenna	23.99
1C-100B	Black magnetic mt CB antenna	23.99
DTG	25" fg double-talk gutter mt CB ant	9.99
FG-27S	48" CB whip	12.99
HQ-27	Power Packer 3/4-24 CB whip	19.99
HQ-27M	Power Packer trunk mt CB antenna	39.99
HQD	Dual fg mirror mount CB antenna	53.99
HQT	Single fg mirror mount CB antenna	29.99
RQM	Magnetic mount CB antenna	21.99
RTG-27L	25" CB antenna w/rain gutter mt	28.99
RTM	25" magnetic mount CB antenna	18.99
RTS-27L	25" CB antenna w/roof mount	28.99
SCB/BLK	46" black CB whip	37.99
SCB/RED	46" red CB whip	37.99
SCB/WHT	46" white CB whip	37.99
SCB-S/BLK	35" black CB whip	37.99
SCB-S/RED	35" red CB whip	37.99
SCB-S/WHT	35" white CB whip	37.99
DCL-B	Discone monitor ant/50' coax/BNC plug	37.99
DCX	Discone monitor ant; 40-700 MHz	25.99
MOR-B	Roof/deck mt tri-band BNC monitor ant	19.99
MOT-B	Trunk lip mt tri-band BNC monitor ant	21.99
MRM-B	Magnet mt tri-band BNC monitor ant	19.99

## HY-GAIN (HYG)

### HF BEAM ANTENNAS

LJ-103BA	3el 7.9db 8' boom 10m beam	\$159.99
LJ-105CA	5el 10.8db 24' boom 10m beam	289.99
LJ-153BA	3el 7.9db 12' boom 15m beam	199.99
LJ-204BA	4el 8.2db 26' boom 20 or 17m beam	499.99
TH-3JRS	3el 600w PEP 20/15/10m beam	359.99
TH-3MK4	3el 8db 14' boom 20/15/10m beam	469.99
TH-5MK2	5el 8.3db 19' boom 20/15/10m beam	699.99
TH-7DX	7el 8.7db 24' boom 20/15/10m beam	799.99
BN-86	3-30MHz balun for HF beam	79.99

### MULTI-BAND HF VERTICAL ANTENNAS

AV-14AVQ	40/20/15/10m 18' vertical ant	\$169.99
AV-18AVQ II	80/40/20/15/10m vertical ant	229.99
AV-18HT	HyTower 80/40/20/15/10m 53' vert T*	949.99
*AV-18HT is drop-shipped (shipped direct to you from the Hy-Gain factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Starkville, Mississippi via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order items.		
AV-18HT-JR	HyTower Jr 80/40/20/15/10m 39' vert	349.99
AV-620	20/17/15/12/10/6m 22.5' vertical	299.99
AV-640	40/30/20/17/15/12/10/6m 25.5' vert	399.99
DX-88	80/40/30/20/17/15/12/10m 25' vert	369.99

## Hy-Gain - continued

### AES Price

<b>VHF/UHF ANTENNAS</b>		
DB-218SAT	VHF/UHF Oscar Link system	\$529.99
VB-25FM	5el 11.2db 75" boom 2m beam	59.99
VB-64DX	4el 10.4db 12' boom 6m beam	144.99
<b>ANTENNA ROTORS</b>		
AR-40	3 sq ft antenna rotor/5-wire	\$329.99
CD-45-II	8.5 sq ft antenna rotor/8-wire	429.99
HAM-IV	15 sq ft antenna rotor/8-wire	629.99
HAM-V	Digital 15 sq ft antenna rotor/8-wire	929.99
HDR-300A	Hvy duty dig 25 sq ft rotor/8-wire	1369.99
T-2X	Tailtwister 20 sq ft antenna rotor/8-wire	749.99
T-2XD	Tailtwister dig 20 sq ft ant rotor/8-wire	1179.99
<b>OPTIONAL ACCESSORIES FOR ROTORS</b>		
DCU-1	Dig rotor control; CD-45/HAM-IV/T-2X	\$749.99
MSHD	Lwr mast support; HAM-IV/T-2X/XD	99.99
MSLD	Lower mast support; CD-45-II/AR-40	39.99
TSP-1	Tower spacer plate	34.99

See BELDEN for rotor cable

## IBS (IBS)

2009	2009 Passport to Worldband Radio	\$ 22.95
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## ICOM (ICO)

IC-7800	Dlx 200w HF+6m Xcvt/IF-DSP/tuner/ps	10999.99
(BET) I-Mate	Message accessory	74.99
CT-17	CI-V level converter	144.99
HM-36	Scanning hand mic	81.99
SM-20	Deluxe desk microphone	219.99
SP-20	Speaker w/audio filters	264.99
SP-23	Speaker w/audio filters	199.99
IC-7700	200w single RX HF/6m Xcvt	6999.99
(BET) I-Mate	Message accessory	74.99
CT-17	CI-V level converter	144.99
HM-36	Scanning hand mic	81.99
SM-20	Deluxe desk microphone	219.99
SP-20	Speaker w/audio filters	264.99
SP-23	Speaker w/audio filters	199.99

### IC-756PRO III Xcvt/6m/IF-DSP/tuner/keyer

\*Additional Icom promotion may apply; Call/Web

(BET) I-Mate	Message accessory	74.99
PS-125	25A switching power supply	329.99
AH-4	80-6m 120w auto wire ant tuner	259.99
AH-2B	Whip w/mt; 40-6m use tuner	389.99
AH-2B extra whip only		89.99
CT-17	CI-V level converter	144.99
HM-36	Scanning hand mic	81.99
OPC-025D	Extra DC cable	32.99
SM-20	Deluxe desk microphone	219.99
SP-20	Speaker w/audio filters	264.99
SP-23	Speaker w/audio filters	199.99
UT-102	Voice synthesizer	81.99

### IC-746PRO Xcv/Rcv/6m/2m/IF-DSP/tuner/mic

PS-125 included with IC-746PRO purchase thru 12/31/08

(BET) I-Mate	Message accessory	74.99
PS-125	25A switching power supply	329.99
AH-4	80-6m 120w auto wire ant tuner	259.99
AH-2B	Whip w/mt; 40-6m use tuner	389.99
AH-2B extra whip only		89.99
CR-338	High stability crystal unit	89.99
CT-17	CI-V level converter	144.99
HM-36	Scanning hand mic	81.99
OPC-025D	Extra DC cable	32.99
SM-20	Deluxe desk microphone	219.99
SP-20	Speaker w/audio filters	264.99
SP-23	Speaker w/audio filters	199.99
UT-102	Voice synthesizer	81.99

### IC-718 HF Xcvt/SW Rcvr/mic w/DSP

(BET) 706 Tune Control for IC-718		32.99
(W4R) OBF-703/718-DIY CW&SB Collins flts		239.99
PS-125	25A switching power supply	329.99
AH-4	80-6m 120w auto wire ant tuner	259.99

## Icom - continued

### AES Price

AH-2B	Whip w/mt; 40-6m use tuner	389.99
AH-2B extra whip only		89.99
AT-180	Auto coax antenna tuner; HF+6m	369.99
OPC-598	23' extension cable; AT-180	79.99
CR-338	High stability crystal unit	89.99
CT-17	CI-V level converter	144.99
FL-52A	500 Hz 455 KHz IF CW filter	199.99
FL-53A	250 Hz 455 KHz IF CW filter	199.99
FL-222	1.9 KHz 455 KHz IF SSB filter	219.99
FL-257	3.3 KHz 455 KHz IF SSB filter	199.99
Suggest dealer installation of filters in IC-718		
MB-5	Mobile mount	65.99
MB-23	Side mount carrying handle	17.99
OPC-025D	Extra DC cable	32.99
OPC-599	7+8-pin to 13-pin adapter	66.99
SM-20	Deluxe desk microphone	219.99
SP-5	Mobile speaker	59.99
SP-20	Speaker w/audio filters	264.99
SP-23	Speaker w/audio filters	199.99
UT-102	Voice synthesizer	81.99
IC-703 Plus	10w mini HF+6m Xcvt/tuner/DSP	*764.99
*Additional Icom promotion may apply; Call/Web		
(W4R) OBF-703/718-DIY CW&SB Collins flts		239.99
AH-4	80-6m 120w auto wire ant tuner	259.99
AH-2B	Whip w/mt; 40-6m use tuner	389.99
AH-2B extra whip only		89.99
AH-703	40/20/15/10/6m 20w 4.6' antenna	219.99
BC-155A	Battery charger for BP-228	32.99
BP-228	9.6v 2800mah external nicad pack	98.99
CT-17	CI-V level converter	144.99
FL-52A	500 Hz 455 KHz IF CW filter	199.99
FL-53A	250 Hz 455 KHz IF CW filter	199.99
FL-222	1.9 KHz 455 KHz IF SSB filter	219.99
FL-257	3.3 KHz 455 KHz IF SSB filter	199.99
Suggest dealer installation of filters in IC-703 series		
HM-154T	TTP microphone	83.99
LC-156	Back pack carrying case	99.99
MB-62	Mounting bracket for main unit	28.99
MB-63	Mounting bracket for control panel	20.99
MB-65	Mounting base platform	47.99
MB-72	Carrying handle	15.99
OPC-581	11.5' separation cable	66.99
OPC-587	16' separation cable	87.99
OPC-599	7+8-pin to 13-pin adapter	66.99
OPC-742	13-pin cable	66.99
OPC-1229	Extra DC cable	31.99
OPC-1248	IC-703 to PS-125 cable	15.99
RMK-706	Package; MB-62/MB-63/OPC-581	77.99
SM-20	Deluxe desk microphone	219.99
OPC-589	8-pin to jack adapt; SM-6/8/20	39.99
SP-10	Slim-line external speaker	76.99
UT-102	Voice synthesizer	81.99
IC-706 Mk II-G	Mini HF Xcvt/6m/2m/440/DSP	Call/Web
RMK-706 included with IC-706 Mk II-G purchase thru 12/31/08		
(BET) 706 Tune Control for IC-706 series		32.99
PS-125	25A switching power supply	329.99
AH-4	80-6m 120w auto wire ant tuner	259.99
AH-2B	Whip w/mt; 40-6m use tuner	389.99
AH-2B extra whip only		89.99
AT-180	Auto coax antenna tuner; HF+6m	369.99
OPC-598	23' extension cable; AT-180	79.99
CR-282	High stability crystal unit; Mk II G	164.99
Suggest dealer install; CR-282, IC-706 Mk II-G		
CT-17	CI-V level converter	144.99
FL-100	500 Hz 9 MHz IF CW filter	129.99
FL-101	250 Hz 9 MHz IF CW filter	129.99
FL-103	2.8 KHz 9 MHz IF SSB filter	119.99
FL-223	1.9 KHz 9 MHz IF SSB filter	99.99
FL-232	350 Hz 9 MHz IF CW/RTTY filter	99.99
HM-154T	TTP microphone	83.99
LC-156	Back pack carrying case	99.99



## Icom - continued

## AES Price

MB-62 Mounting bracket for main unit .....	28.99
MB-63 Mounting bracket for control panel .....	20.99
MB-65 Mounting base platform .....	47.99
MB-72 Carrying handle; Mk II-G only .....	15.99
OPC-025D Extra DC cable .....	32.99
OPC-581 11.5' separation cable .....	66.99
OPC-587 16' separation cable .....	87.99
OPC-599 7+8-pin to 13-pin adapter .....	66.99
OPC-742 13-pin cable .....	66.99
RMK-706 Package; MB-62/MB-63/OPC-581 .....	77.99
SM-20 Deluxe desk microphone .....	219.99
OPC-589 8-pin to jack adapt; SM-6/8/20 .....	39.99
SP-10 Slim-line external speaker .....	76.99
UT-102 Voice synthesizer .....	81.99
IC-7000 Deluxe mini HF/6m/2m/440 Xcvr ...	*1599.99

**\*Additional Icom promotion may apply; Call/Web**  
**RMK-7000 included with IC-7000 purchase thru 12/31/08**

(BET) 7000 Screwdriver Control* for IC-7000 .....	84.99
*Requires 7000 Tune Control also	
(BET) 7000 Tune Control for IC-7000 .....	54.99
AH-4 80-6m 120w auto wire ant tuner .....	259.99
AH-2B Whip w/mt; 40-6m use tuner .....	389.99
AH-2B extra whip only .....	89.99
AT-180 Auto coax antenna tuner; HF+6m .....	369.99
OPC-598 23' extension cable; AT-180 ..D .....	79.99
CT-17 CI-V level converter .....	144.99
HM-154T TTP microphone .....	83.99
LC-156 Back pack carrying case .....	99.99
MB-62 Mounting bracket for main unit .....	28.99
MB-65 Mounting base (MB-105 required) D .....	47.99
MB-105 Remote head bracket .....	19.99
MB-106 Carry handle .....	22.99
OPC-599 7+8-pin to 13-pin adapter .....	66.99
OPC-742 13-pin cable .....	66.99
OPC-1443 11.5' remote cable .....	49.99
OPC-1444 16' remote cable .....	88.99
OPC-1457 Extra DC cable .....	31.99
RMK-7000 Package; MB-62, MB-105, OPC-1443 .....	99.99
SM-20 Deluxe desk microphone .....	219.99
OPC-589 8-pin to jack adapt; SM-6/8/20 .....	39.99
SP-10 Slim-line external speaker .....	76.99
IC-7200 HF/6m rugged Xcvr .....	1099.99
PS-125 25A switching power supply .....	329.99
AH-4 80-6m 120w auto wire ant tuner .....	259.99
AH-2B Whip w/mt; 40-6m use tuner .....	389.99
AH-2B extra whip only .....	89.99
AT-180 Auto coax antenna tuner; HF+6m .....	369.99
OPC-598 23' extension cable; AT-180 ..D .....	79.99
CT-17 CI-V level converter .....	144.99
MB-116 Front handles .....	86.99
MB-117 Carrying handle .....	28.99
MB-118 Mobile mounting bracket .....	28.99
OPC-599 7+8-pin to 13-pin adapter .....	66.99
OPC-1457 Extra DC cable .....	31.99
SM-20 Deluxe desk microphone .....	219.99
SP-10 Slim-line external speaker .....	76.99
SP-20 Speaker w/audio filters .....	264.99
SP-23 Speaker w/audio filters .....	199.99
AH-710 1.9-30 MHz 80' folded dipole/98' coax .....	299.99
PW-1 160-15+6m linear amplifier/ps/tuner .....	4699.99

## RECEIVERS

R-5-06 15M-1.3G AM/FM hand/batts/cell blkd D .....	\$199.99
R-5-Sport-06 15M-1.3G hand/no batts/cell blkd .....	174.99
R-5-Sport-11* HH Rcvr/restricted sales! spec order .....	174.99
AD-92SMA SMA- BNC adapter .....	18.99
CP-18A Cig lighter cable .....	33.99
CS-R5 Win programming software .....	44.99
OPC-474 Cloning cable (R-5 to R-5) .....	19.99
OPC-478 PC RS-232C cable .....	47.99
OPC-478U/UC PC USB cable .....	66.99
HP-4 Lightweight headphones .....	32.99

## Icom - continued

## AES Price

LC-146A Carrying case .....	26.99
SP-13 Earphone .....	4.99
R-3-27* Rcvr/TV/restricted sales! special order .....	489.99
BC-135 Desktop charger w/adaptor cup .....	49.99
BP-206 3.7v 1650mah lith ion battery .....	69.99
CP-18A Cig lighter cable .....	33.99
CS-R3 Win programming software .....	14.99
OPC-474 Cloning cable (R-3 to R-3) .....	19.99
OPC-478 PC RS-232C cable .....	47.99
OPC-478U/UC PC USB cable .....	66.99
HP-4 Lightweight headphones .....	32.99
LC-151 Carrying case .....	14.99
SP-13 Earphone .....	4.99
RX-7-05 Handheld receiver/cell blkd .....	299.99
RX-7-10 Rcvr/restricted sales! special order .....	299.99
AD-92SMA SMA- BNC adapter .....	18.99
CP-18A Cig lighter cable .....	33.99
CT-17 CI-V level converter .....	144.99
HP-4 Lightweight headphones .....	32.99
OPC-474 Cloning cable (RX-7 to RX-7) .....	19.99
OPC-478U/UC PC USB cable .....	66.99
SP-13 Earphone .....	4.99
R-20-06 150KHz-3.3GHz handheld Rcvr/cell blkd .....	*524.99

**\*Additional Icom promotion may apply; Call/Web**

R-20-11* Rcvr/restricted sales! special order .....	549.99
BC-156-02 Desktop charger .....	88.99
BP-206 Extra 3.7v 1650mah lith ion batt .....	69.99
CP-18A Cig lighter cable .....	33.99
CS-R20 Cloning software/USB cable; R-20 .....	62.99
CT-17 CI-V level converter .....	144.99
LC-158 Carrying case .....	32.99
MB-86 Swivel belt clip .....	10.99
SP-13 Earphone .....	4.99
PCR-1500-25 PC control Receiver/cell blkd .....	*469.99
<b>*Additional Icom promotion may apply; Call/Web</b>	
<b>Bon CS4.5 included with PCR-1500-25 purchase thru 12/31/08</b>	
PCR-1500-30* PC Rcvr/restricted sales! spec order .....	499.99
AH-7000 25-1300 MHz discone ant/50'coax .....	189.99
AH-8000 100-3300MHz discone ant/49'coax .....	249.99
BON CS-4.5 Bonito software .....	76.99
CP-12L Right angle cig cable w/filter .....	40.99
OPC-254L Right angle mini DC pwr cable .....	15.99
OPC-441 16.4' speaker extension cable .....	36.99
SP-10 Slim-line external speaker .....	76.99
UT-106 Plug-in DSP unit .....	154.99
R-1500-05 Receiver w/rem head/cell blkd .....	*569.99

**\*Additional Icom promotion may apply; Call/Web**

**Bon CS4.5 included with R-1500-05 purchase thru 12/31/08**

R-1500-10* Rcvr/restricted sales! special order .....	599.99
AH-7000 25-1300 MHz discone ant/50'coax .....	189.99
AH-8000 100-3300MHz discone ant/49'coax .....	249.99
BON CS-4.5 Bonito software .....	76.99
CP-12L Right angle cig cable w/filter .....	40.99
OPC-254L Right angle mini DC pwr cable .....	15.99
OPC-441 16.4' speaker extension cable .....	36.99
SP-10 Slim-line external speaker .....	76.99
UT-106 Plug-in DSP unit .....	154.99

**PCR-2500-25 Advanced PC cti Rcvr/cell blkd .....**

**\*Additional Icom promotion may apply; Call/Web**

**Bon CS4.5 included with PCR-2500-25 purchase thru 12/31/08**

PCR-2500-30* PC Rcvr/restricted sales! spec order .....	849.99
AH-7000 25-1300 MHz discone ant/50'coax .....	189.99
AH-8000 100-3300MHz discone ant/49'coax .....	249.99
BON CS-4.5 Bonito software .....	76.99
CP-12L Right angle cig cable w/filter .....	40.99
OPC-254L Right angle mini DC pwr cable .....	15.99
OPC-441 16.4' speaker extension cable .....	36.99
SP-10 Slim-line external speaker .....	76.99
UT-106 Plug-in DSP unit .....	154.99
UT-108 DTMF decoder unit .....	37.99
UT-118 Digital board .....	219.99

## Icom - continued

## AES Price

UT-122 P-25 digital board .....	219.99
R-2500-05 Advanced Rcvr w/rem head/cell blkd .....	*829.99
<b>*Additional Icom promotion may apply; Call/Web</b>	
<b>Bon CS4.5 included with R-2500-05 purchase thru 12/31/08</b>	
R-2500-10* Rcvr/restricted sales! special order .....	999.99
AH-7000 25-1300 MHz discone ant/50'coax .....	189.99
AH-8000 100-3300MHz discone ant/49'coax .....	249.99
BON CS-4.5 Bonito software .....	76.99
CP-12L Right angle cig cable w/filter .....	40.99
OPC-254L Right angle mini DC pwr cable .....	15.99
OPC-441 16.4' speaker extension cable .....	36.99
SP-10 Slim-line external speaker .....	76.99
UT-106 Plug-in DSP unit .....	154.99
UT-108 DTMF decoder unit .....	37.99
UT-118 Digital board .....	219.99
UT-122 P-25 digital board .....	219.99
BON CS-40 Bonito soft; PCR-1000-02/07 ..D .....	19.99
CS-R10 DOS programming software; R-10 ..D .....	.49
FA-B02RE High sensitivity VHF BNC duck ..D .....	2.99
R-75 .03-60 MHz shortwave Rcvr/DSP .....	629.99
CR-282 High stability crystal unit .....	164.99
CT-17 CI-V level converter .....	144.99
FL-52A 500 Hz 455 KHz IF CW filter .....	199.99
FL-53A 250 Hz 455 KHz IF CW filter .....	199.99
FL-100 500 Hz 9 MHz IF CW filter .....	129.99
FL-101 250 Hz 9 MHz IF CW filter .....	129.99
FL-103 2.8 KHz 9 MHz IF SSB filter .....	119.99
FL-222 1.9 KHz 455 KHz IF SSB filter .....	219.99
FL-223 1.9 KHz 9 MHz IF SSB filter .....	99.99
FL-232 350 Hz 9 MHz IF CW/RTTY filter .....	99.99
FL-257 3.3 KHz 455 KHz IF SSB filter .....	199.99
MB-5 Mobile mount .....	65.99
MB-23 Side mount carrying handle .....	17.99
OPC-869 DC cable .....	61.99
RS-R75 PC control software w/RS-232 cable .....	88.99
OPC-478 PC RS-232C cable .....	47.99
SP-23 Speaker w/audio filters .....	199.99
UT-102 Voice synthesizer .....	81.99
R-8500* Rcvr/restricted sales! special order .....	1879.99
AH-7000 25-1300 MHz discone ant/50'coax .....	189.99
AH-8000 100-3300MHz discone ant/49'coax .....	249.99
CR-293 High stability xtal unit .....	319.99
FL-52A 500 Hz CW filter .....	199.99
MB-12 Mobile mount; R-8500 ..D .....	29.99
MB-23 Side mount carrying handle .....	17.99
RS-R8500 PC control soft w/RS-232 cbl spec ord .....	88.99
SP-23 Speaker w/audio filters .....	199.99
UT-102 Voice synthesizer .....	81.99
R-9500-02 Deluxe Receiver .....	special order 13500.00
R-9500-06* Rcvr/restricted sales! special order .....	13500.00
AH-7000 25-1300 MHz discone ant/50'coax .....	189.99
AH-8000 100-3300MHz discone ant/49'coax .....	249.99
CT-17 CI-V level converter .....	144.99
SP-20 Speaker w/audio filters .....	264.99
UT-122 P-25 digital board .....	219.99

\*United States government agencies **ONLY** may purchase unblocked models of PCR-1000/PCR-1500/PCR-2500/R-3/R-5/R-20/R-1500/R-2500/R-8500/R-9500 for official government use only. State and local governments may purchase R-9500 unblocked only also. Mail or FAX purchase order to AES. Exports: inquire.

BC-96 Wireless mic holder; IC-2100H .....	D 4.99
CS-2730 Win/DOS clone software; IC-2720H .....	Δ 24.99
HM-1333S Extra TTP mic; IC-2100H .....	Δ 99.99
MB-28H Mobile mounting bracket .....	29.99
MB-84 Remote controller bracket; IC-2720H .....	Δ 14.99
MB-85 Combination bracket; IC-2720H .....	Δ 19.99
OPC-346 9.8' DC cable; 2100H/207H/2800H .....	Δ 19.99
OPC-1156 11.5' separation cable; IC-2720H .....	Δ 14.99

**IC-2200H 65w 2m FM Xcvr w/WX alert .....**

**\*Additional Icom promotion may apply; Call/Web**



**Icom - continued****AES Price**

CS-2200H Windows cloning software .....	62.99
OPC-478 PC RS-232C cable .....	47.99
OPC-478U/UC PC USB cable .....	66.99
MB-28H Mobile mounting bracket .....	29.99
OPC-347 23' DC cable .....	51.99
OPC-440 16.4' mic extension cable .....	94.99
OPC-441 16.4' speaker extension cable ....	36.99
OPC-474 Radio to radio cloning cable .....	19.99
OPC-589 8-pin mic jack adapter cable .....	39.99
OPC-1132 9.8' DC cable .....	31.99
SP-10 Slim-line external speaker .....	76.99
UT-108 DTMF decoder unit .....	37.99
UT-118 Digital board .....	219.99

**IC-V8000 75w 2m FM Xcvr w/WX alert/scan \*239.99****\*Additional Icom promotion may apply; Call/Web**

CS-V8000 Windows cloning software .....	39.99
OPC-478 PC RS-232C cable .....	47.99
OPC-478U/UC PC USB cable .....	66.99
OPC-347 23' DC cable .....	51.99
OPC-440 16.4' mic extension cable .....	94.99
OPC-441 16.4' speaker extension cable ....	36.99
OPC-474 Radio to radio cloning cable .....	19.99
OPC-589 8-pin mic jack adapter cable .....	39.99
OPC-1132 9.8' DC cable .....	31.99
SP-10 Slim-line external speaker .....	76.99
UT-108 DTMF decoder unit .....	37.99
V8000-MMB Extra mobile bracket .....	29.99

**IC-V8000 55w 2m/50w 440 FM Xcvr/WX alert \*329.99****\*Additional Icom promotion may apply; Call/Web**

CS-208 Win cloning software .....	39.99
OPC-478 PC RS-232C cable .....	47.99
OPC-478U/UC PC USB cable .....	66.99
MB-28H Mobile mounting bracket .....	29.99
MB-58 Remote controller bracket .....	43.99
MB-65 Mounting base platform; MB-58 D .....	47.99
OPC-347 23' DC cable .....	51.99
OPC-440 16.4' mic extension cable .....	94.99
OPC-441 16.4' speaker extension cable ....	36.99
OPC-474 Radio to radio cloning cable .....	19.99
OPC-589 8-pin mic jack adapter cable .....	39.99
OPC-601R 23' separation cable .....	74.99
OPC-1132 9.8' DC cable .....	31.99
SP-10 Slim-line external speaker .....	76.99

**IC-2820H 50w 2m/50w 440 FM Xcvr .....**

CS-2820 Win cloning software .....	39.99
OPC-478 PC RS-232C cable .....	47.99
OPC-478U/UC PC USB cable .....	66.99
MB-65 Mounting base platform .....	47.99
OPC-347 23' DC cable .....	51.99
OPC-440 16.4' mic extension cable .....	94.99
OPC-441 16.4' speaker extension cable ....	36.99
OPC-474 Radio to radio cloning cable .....	19.99
OPC-589 8-pin mic jack adapter cable .....	39.99
OPC-1132 9.8' DC cable .....	31.99
OPC-1529R Data communications cable ..	28.99
SP-10 Slim-line external speaker .....	76.99
UT-123 DV mode & GPS receiver .....	329.99

**IC-910H 100w 2m/75w 430 FM/SSB Xcvr .....**

PS-125 25A switching power supply .....	329.99
AG-25 2m mast mounted GaSfET preamp ..	179.99
AG-35 430 MHz mast mounted preamp .....	189.99
CR-293 High stability xtal unit .....	319.99
CT-17 Cl-V level converter .....	144.99
FL-132 500 Hz main Rcvr CW filter .....	129.99
FL-133 500 Hz sub band Rcvr CW filter .....	129.99
MB-5 Mobile mount .....	65.99
MB-23 Side mount carrying handle .....	17.99
SM-20 Deluxe desk microphone .....	219.99
SP-10 Slim-line external speaker .....	76.99
UT-102 Voice synthesizer .....	81.99
UT-106 Plug-in DSP unit (one per band) ...	154.99

**Icom - continued****AES Price**

UX-910 10w 1.2GHz module .....	589.99
ID-1 10w 1.2GHz FM/128k analog/digital Xcvr .....	*999.99
<b>*Additional Icom promotion may apply; Call/Web</b>	
MB-28H Mobile mounting bracket .....	29.99
OPC-347 23' DC cable .....	51.99
OPC-440 16.4' mic extension cable .....	94.99
OPC-441 16.4' speaker extension cable ....	36.99
OPC-1132 9.8' DC cable .....	31.99
SP-10 Slim-line external speaker .....	76.99

**ID-800 55w 2m/50w 440 FM analog/dig Xcvr \*639.99****\*Additional Icom promotion may apply; Call/Web**

CS-D800 Cloning software .....	50.99
OPC-478 PC RS-232C cable .....	47.99
OPC-478U/UC PC USB cable .....	66.99
MB-28H Mobile mounting bracket .....	29.99
OPC-347 23' DC cable .....	51.99
OPC-440 16.4' mic extension cable .....	94.99
OPC-441 16.4' speaker extension cable ....	36.99
OPC-601R 23' separation cable .....	74.99
OPC-1132 9.8' DC cable .....	31.99
OPC-1384 RS-232C data cable .....	39.99
SP-10 Slim-line external speaker .....	76.99

**IC-91A 5w 2m/440 D-Star upgradeable HT .....****UT-121 Digital board for D-Star .....****IC-91AD 5w 2m/440 D-Star compatible HT .....**

AD-92SMA SMA- BNC adapter .....	18.99
BC-139 Desk rapid charger .....	99.99
BP-216 Battery case for 2 AA .....	39.99
BP-217 7.4v 1300mah lith ion battery .....	99.99
CP-19R Cig lighter cable w/filter .....	48.99
HM-75A Remote control microphone .....	77.99
HM-128 Earphone+microphone .....	28.99
HM-131 Spkr/mic/earph jack/revolving clip .....	42.99
HS-85 Headset w/VOX .....	98.99
LC-163 Carrying case .....	40.99
OPC-474 Cloning cable (radio to radio) ....	19.99
OPC-782 Plug adapt cable; HS85/SP13 ..	18.99
OPC-1529R Data communications cable ..	28.99
RS-91 Rem control software/RS-232 cable ..	61.99
SP-13 Earphone .....	4.99
IC-92AD 5w 2m/440 D-Star compatible HT .....	579.99
AD-92SMA SMA- BNC adapter .....	18.99
BC-177 Desk rapid charger .....	84.99
BP-256 7.4v 1620mah lith ion battery .....	99.99
BP-257 Battery case for 2 AA .....	40.99
CP-19R Cig lighter cable w/filter .....	48.99
HM-75A Remote control microphone .....	77.99
HM-131 Spkr/mic/earph jack/revolving clip .....	42.99
HM-174 Waterproof spkr/mic .....	129.99
HM-175GPS Waterproof spkr/mic w/GPS ...	369.99
HS-85 Headset w/VOX .....	98.99
LC-168 Carrying case .....	29.99
OPC-254L Right angle mini DC pwr cable ..	15.99
OPC-474 Cloning cable (radio to radio) ....	19.99
OPC-1797 Plug adapt cable; 2pin spkr/mic ..	55.99
RS-92 Rem control software/RS-232 cable ..	99.99
SP-13 Earphone (needs OPC-1797) .....	4.99

**D-STAR REPEATERS**

ID-RP2C Repeater controller .....	1459.99
ID-RP2D 1.2GHz data repeater special order ..	1112.99
ID-RP2L-06* 10GHz backbone (1 of 2) special order ..	4999.99
ID-RP2L-07* 10GHz backbone (2 of 2) special order ..	4999.99
<b>*Both 06 &amp; 07 are required to complete a link</b>	
ID-RP2V 1.2GHz voice repeater special order ..	1559.99
ID-RP2000V 2m voice repeater .....	1399.99
ID-RP4000V 440MHz voice repeater .....	1399.99
RS-SR2G2 G2 D-Star gateway software .....	299.99
IC-V8 Sport 5.5w 2m FM HT/alkaline case ..	99.99
BC-119-N01 Desk charger (adapter required) ..	68.99
AD-94-11 Adapter cup for BC-119-N01 Δ ..	6.99
AD-101 Adapter cup; BP-211N/BC-119-N01 ..	19.99

**Icom - continued****AES Price**

BC-144N/BC144N51 Rapid desk charger ..	65.99
BP-208N Battery case .....	19.99
BP-209N 7.2v 1100mah 5.5w battery .....	42.99
BP-210N 7.2v 1650mah 5.5w battery .....	52.99
BP-222N 7.2v 600mah 5.5w battery .....	30.99
CP-17L Right angle cig cable for charger ..	25.99
CS-V8 Cloning software for IC-V8 .....	39.99
OPC-474 Cloning cable (V8 to V8) .....	19.99
OPC-478 PC RS-232C cable .....	47.99
OPC-478U/UC PC USB cable .....	66.99
HM-46L Slim-line spkr/mic, rt angle plug ..	45.99
HM-54 Hvy duty spkr/mic .....	75.99
HM-75A Remote control microphone .....	77.99
HM-128L Rt angle plug earphone+mic .....	27.99
HM-158L Rt angle spkr/mic/earph jack/clip ..	45.99
HS-51 Headset w/VOX .....	99.99
HS-94 Ear-piece style headset; use w/VS-1L ..	24.99
VS-1L Right angle VOX-PTT unit for HS-94 ..	42.99
LCF3G Swivel Leather case with swivel ....	50.99
MB-74N Spring loaded belt clip; orig batts ..	12.99
MB-86 Swivel belt clip; N-series batteries ..	10.99
MB-87 Swivel belt clip; original batteries Δ ..	5.99
MB-103 Spring loaded belt clip; N-series batts ..	12.99
OPC-515L Right angle DC cord for charger ..	21.99
SP-13 Earphone .....	4.99
UT-108 DTMF decoder unit .....	37.99

**IC-V82 7w 2m FM HT/battery/charger .....****\*Additional Icom promotion may apply; Call/Web****IC-U82 5w 440 FM HT/battery/charger .....****\*Additional Icom promotion may apply; Call/Web**

BC-119-N01 Desk charger (adapter required) ..	68.99
AD-94-11 Adapter cup for BC-119-N01 Δ ..	6.99
AD-101 Adapter cup; BP-211N/BC-119-N01 ..	19.99
BC-144N/BC144N51 Rapid desk charger ..	65.99
BP-208N Battery case .....	19.99
BP-209N 7.2v 1100mah 5.5w battery .....	42.99
BP-210N 7.2v 1650mah 5.5w battery .....	52.99
BP-222N 7.2v 600mah 5.5w battery .....	30.99
CS-V82 Cloning software for IC-V82/U82 ..	44.99
OPC-474 Cloning cable (HT to HT) .....	19.99
OPC-478 PC RS-232C cable .....	47.99
OPC-478U/UC PC USB cable .....	66.99
HM-46 Slim-line speaker/mic .....	50.99
HM-54 Heavy duty spkr/mic .....	75.99
HM-75A Remote control microphone .....	77.99
HM-128L Rt angle plug earphone+mic .....	27.99
HM-158L Rt angle spkr/mic/earph jack/clip ..	45.99
HS-85 Headset w/VOX .....	98.99
HS-94 Ear-piece style headset; use w/VS-1L ..	24.99
VS-1L Right angle VOX-PTT unit for HS-94 ..	42.99
MB-86 Swivel belt clip .....	10.99
MB-103 Spring loaded belt clip; N-series batts ..	12.99
SP-13 Earphone .....	4.99
UT-108 DTMF decoder unit .....	37.99
UT-118 Digital board .....	219.99
IC-V85 7w 2m FM HT/lith ion/charger .....	199.99
BP-226 Battery case for 5 AA .....	41.99
BP-227 7.2v 1700mah lith ion battery .....	88.99
CP-19R Cig lighter cable w/filter .....	48.99
CS-V85 Cloning software for IC-V85 .....	44.99
OPC-474 Cloning cable (HT to HT) .....	19.99
OPC-478U/UC PC USB cable .....	66.99
HM-75A Remote control microphone .....	77.99
HM-128L Rt angle plug earphone+mic .....	27.99
HM-158L Rt angle spkr/mic/earph jack/clip ..	45.99
HS-85 Headset w/VOX .....	98.99
HS-94 Ear-piece style headset; use w/VS-1L ..	24.99
VS-1L Right angle VOX-PTT unit for HS-94 ..	42.99
LC-167 Carrying case .....	42.99
SP-13 Earphone .....	4.99
UT-108 DTMF decoder unit .....	37.99



## Icom - continued AES Price

<b>IC-T7H Sport</b> 2w 2m/440 FM HT/alkaline case	174.99
BC-110A/BC-74 Extra wall charger .....	25.99
BC-119-N11 Nicad/NiMH desk cgr (use adapt) Δ	99.99
BP-170 Battery case .....	39.99
BP-172 4.8v 950mah battery .....	69.99
BP-180 7.2v 600mah battery .....	84.99
CP-12 Cig lighter cable w/filter .....	40.99
CP-12L Right angle cig cable w/filter .....	40.99
CSW-HH4 Windows prog soft/cbl; T7HW32A .....	55.99
OPC-474 Cloning cable .....	19.99
OPC-478 PC RS-232C cable .....	47.99
FA-1443B Extra 2m/440 dual band duck Δ	32.99
HM-46 Slim-line speaker/mic .....	50.99
HM-54 Heavy duty spkr/mic .....	75.99
HM-75A Remote control microphone .....	77.99
HM-128 Earphone+microphone .....	28.99
HM-131 Spkr/mic/earph jack/revolving clip	42.99
HS-10 Boom mic/headset .....	14.99
HS-10SA VOX unit .....	29.99
HS-85 Headset w/VOX .....	98.99
HS-94 Ear-pc headset; use w/VS-1 .....	24.99
VS-1 VOX-PTT unit for HS-94 .....	42.99
LC-137 Vinyl case; T7H w/BP173/180 .....	29.99
NCP-1 Nylon chest pack .....	39.99
OPC-254L Right angle mini DC pwr cable .	15.99
SP-13 Earphone .....	4.99
AD-51 Batt pack adapt; W32A/rapid cgr .....	15.99
AD-81 Batt adapter for rapid cgr; IC-T2H Δ	6.99
AD-87 Batt pack adapter; rapid cgr; T81A Δ	4.99
AD-88 PCB board; original BC-119-11 .....	16.99
BC-119-N21 Nicad/NiMH desk cgr (use adapt); T81A Δ	99.99
BC-133 Drop-in trickle charger; IC-T2H .....	14.99
BC-122A AC adapter for BC-133 .....	6.99
BP-194 AA alkaline battery case; IC-T2H Δ	20.99
BP-195 9.6v 700mah nicad batt; IC-T2H Δ	24.99
BP-196 9.6v 1050mah nicad batt; IC-T2H Δ	29.99
BP-200L 9.6v 760mah NiMH battery; T81A Δ	79.99
LC-128 Vinyl case; IC-W32A .....	29.99
LC-145 Carrying case for IC-T2H .....	14.99
LCF3 Swivel Leather case w/swivel; IC-T2H Δ	19.99
<b>IC-T90A</b> 5w 6m/2m/440 FM HT/lith ion .....	*274.99
<b>*Additional Icom promotion may apply; Call/Web</b>	
AD-92SMA SMA- BNC adapter .....	18.99
BC-139 Desk rapid charger .....	99.99
BP-216 Battery case for 2 AA .....	39.99
BP-217 7.4v 1300mah lith ion battery .....	99.99
CP-19R Cig lighter cable w/filter .....	48.99
CS-T90A Windows cloning software; IC-T90A	39.99
OPC-474 Cloning cable (radio to radio) .	19.99
OPC-478 PC RS-232C cable .....	47.99
OPC-478U/UC PC USB cable (XP only) ...	66.99
HM-46 Slim-line speaker/mic .....	50.99
HM-75A Remote control microphone .....	77.99
HM-128 Earphone+microphone .....	28.99
HM-131 Spkr/mic/earph jack/revolving clip	42.99
HS-85 Headset w/VOX .....	98.99
HS-94 Ear-pc headset; use w/VS-1 .....	24.99
VS-1 VOX-PTT unit for HS-94 .....	42.99
LC-152A Carrying case .....	26.99
MB-83 Swivel belt clip .....	10.99
SP-13 Earphone .....	4.99
<b>IC-P7A</b> 1.5w 2m/1w 440 FM submini HT/lith ion	*239.99
<b>*Additional Icom promotion may apply; Call/Web</b>	
AD-92SMA SMA- BNC adapter .....	18.99
BP-243 3.7v 1800mah lith ion battery .....	62.99
CP-21LR Cig cable w/filter .....	62.99
CS-P7 Windows cloning software .....	39.99
OPC-474 Cloning cable (radio to radio) .	19.99
OPC-478 PC RS-232C cable .....	47.99
OPC-478U/UC PC USB cable .....	66.99
HM-128 Earphone+microphone .....	28.99

## Icom - continued AES Price

HM-131 Spkr/mic/earph jack/revolving clip	42.99
LC-161 Carrying case .....	40.99
OPC-782 Plug adapter cable for SP-13 ....	18.99
SP-13 Earphone .....	4.99
<b>ACCESSORIES</b>	
AG-25 2m mast mounted GaSFET preamp ....	\$179.99
AG-35 430 MHz mast mounted preamp .....	189.99
AH-7000 25-1300 MHz discone ant/50'coax .	189.99
AH-8000 100-3300MHz discone ant/49'coax	249.99
CT-17 CI-V level converter .....	144.99
PS-125 25A switching power supply .....	329.99
SM-20 Deluxe desk microphone .....	219.99
SP-5 Mobile speaker .....	59.99
SP-10 Slim-line external speaker .....	76.99
SP-20 Speaker w/audio filters .....	264.99
SP-23 Speaker w/audio filters .....	199.99
<b>CONSUMER ELECTRONICS</b>	
A-24 5w air handheld w/NiMH battery .....	\$325.99
IC-F21-6M 15 ch 4w GMRs/FRS handheld ...	129.99
IC-M32 Waterproof 5w VHF marine handheld .D	119.99
IC-M72 Waterproof 6w VHF marine handheld	199.99
M-710 (21) 150w HF marine SSB .spec order	1469.99
AT-130 HF marine auto ant tuner spec order	479.99
M-802 150w DSP marine SSB Xcvr spec order	1839.99
<b>IDIDM PRESS (IDI)</b>	
K-5 Logikey CW keyer .....	\$149.99
HK-3 Hook-up kit .....	10.99
<b>INTERNET LABS (INT)</b>	
DV-Dongle Computer dongle; internet D-Star	\$199.99
<b>ISOTRON (ISO)</b>	
160C 160m 9.5'x16"x15" 100 KHz bandwidth ant	\$173.99
80 80m 32"x16"x15" 110 KHz bandwidth ant	109.99
40 40m 22"x16"x15" 250 KHz bandwidth ant	88.99
20 20m 21"x8"x4" 350 KHz bandwidth ant	78.99
15 15m 21"x1.5"x4" 450 KHz bandwidth ant	78.99
10 10m 16"x1.5"x4" 1 MHz bandwidth ant	78.99
6 6m 16.5"x2"x4" 1.25 MHz bandwidth ant	78.99
80/40 Combo 80/40m 32"x16"x30" ant ...	188.99
40/20 Combo 40/20m combo antenna .....	167.99
20/15/10 Combo 20/15/20m combo ant .....	198.99
<b>K-KOM (KCO)</b>	
RF-1 Sgl line modular phone 3-30 MHz RFI filter	\$ 16.99
RF-1/Low Modular phone .5-3 MHz RFI filter	16.99
RF-1/2-line 2-line modular 3-30 MHz RFI filt	22.99
RF-1/coiled Coiled cord modular 3-30MHz filt	22.99
RF-2 Hard-wired telephone 3-30 MHz RFI filt	10.99
RF-2/Low Hard-wired phone .5-3 MHz RFI filt	10.99
<b>KNK Marketing (KNK)</b>	
RLG 2007 So Ca rprr listings/SW USA rprr map	\$ 5.00
<b>KANTRONICS (KAN)</b>	
KPC-3 Plus/128K Small packet TNC/128K RAM	\$229.99
KPC-9612 Plus/128K 9600 controller/128K ...	430.99
(CSS) ROC Digital Desktop; Kan Soft; Kan TNCs	99.99
12VDC Adaptor 300ma adaptor .....	19.99
KAM XL All mode TNC w/DSP modems .....	446.99
(CSS) ROC Digital Desktop; Kan Soft; Kan TNCs	99.99
12VDC Adaptor 300ma adaptor .....	19.99
MT-1200 Mobile Tracker TNC; external NMEA GPS Δ	179.99
MT-1200G Mobile Tracker TNC w/GPS/antenna Δ	269.99
<b>KENT (KNT)</b>	
SK-1 Straight key .....	\$129.99
SP-1 Single paddle key .....	139.99
TP-1 Dual paddle iambic key .....	149.99
VK-1 Vail Correspondent straight key .....	179.99

## KENWOOD (KEN) AES Price

<b>TS-B2000</b> PC ctl HF/6m/2m/430 Xcvr/tuner	*1399.99
<b>*Price after instant coupon; coupon expires 10/31/08</b>	
<b>TS-2000</b> HF/6m/2m/430 Xcvr/ant tuner .....	*1594.99
<b>*Price after instant coupon; coupon expires 10/31/08</b>	
UT-20 1.2GHz module Kenwood install only	
<b>TS-2000X</b> HF/6m/2m/430/1.2 Xcvr/tuner ....	*2064.99
<b>*Price after instant coupon; coupon expires 10/31/08</b>	
KPS-15 23A switching ps w/fan, 25A surge	134.99
ARCP-2000 PC control soft; included w/TSB ....	82.99
DRU-3A Digital recording unit .....	129.99
HS-5 Deluxe headphones .....	79.99
HS-6 Lightweight headphones .....	59.99
MB-430 Mobile mounting bracket .....	49.99
MC-43S Extra 8-pin hand mic w/up-down .	59.99
MC-57DM Back-lit TTP hand mic .....	79.99
MC-60A 8-pin amp desk mic w/up-down ...	149.99
MC-90 2-head DSP desk microphone .....	249.99
PG-2Y 13' DC cable .....	39.99
PG-2Z 6.5' heavy duty DC cable .....	37.99
RC-2000 Remote faceplate mobile kit .....	369.99
SP-23 External speaker .....	89.99
VS-3 Voice synthesizer .....	39.99
<b>TS-480HX</b> 200w HF/100w 6m Xcvr .....	*1094.99
<b>*Price after instant coupon; coupon expires 10/31/08</b>	
<b>TS-480SAT</b> 100w HF/6m Xcvr w/auto tuner	*989.99
<b>*Price after instant coupon; coupon expires 10/31/08</b>	
KPS-15 23A sw ps/fan, 25A surge (use 2 for 200w)	134.99
E30-3489-05 Extra 6' DC cable for TS-480	38.99
HS-5 Deluxe headphones .....	79.99
HS-6 Lightweight headphones .....	59.99
MB-480 Carrying bracket w/handle .....	47.99
MC-43S Extra 8-pin hand mic w/up-down .	59.99
MC-47 Multi-function 8-pin hand mic .....	59.99
MC-60A 8-pin amp desk mic w/up-down ...	149.99
MC-90 2-head DSP desk microphone .....	249.99
MJ-88 Modular to 8-pin mic adapter .....	32.99
PG-4Z 13' panel extension kit .....	58.99
PG-20 22' DC cable .....	46.99
SO-3 TCXO unit .....	109.99
SP-23 External speaker .....	89.99
SP-50B High quality external mobile spkr ..	55.99
VGS-1 Voice guide & storage unit .....	67.99
YF-107C 500 Hz CW filter .....	119.99
YF-107CN 270 Hz CW filter .....	119.99
YF-107SN 1.8 KHz SSB filter .....	119.99
7-pin DIN plug .....	4.99
8-pin DIN plug .....	6.99
13-pin DIN plug .....	9.99
HS-5 Deluxe headphones .....	79.99
HS-6 Lightweight headphones .....	59.99
KES-5 Heavy duty 40w untermated speaker	59.99
KPS-15 23A switching ps w/fan, 25A surge .	134.99
LF-30A 1kw PEP low pass filter .....	64.99
MC-43S 8-pin hand mic w/up-down switch ..	59.99
MC-60A 8-pin amp desk mic w/up-down ...	149.99
MJ-88 Modular to 8-pin mic adapter .....	32.99
PG-3B 15A DC line noise filter .....	29.99
PG-4M 18' extension cable for AT-50 .....	24.99
SO-2 TCXO unit; TS-570D/S .....	179.99
SP-31 External speaker; TS-870S .....	99.99
SP-50B High quality external mobile speaker	55.99
SP-950 Ext spkr/audio filters; TS-950SDX .....	149.99
YK-88C-1 500 Hz CW filter; TS-570D/S .....	129.99
YK-88CN-1 270 Hz CW filter; TS-570D/S .....	129.99
YK-88SN-1 1.8 KHz SSB filter; TS-570D/S Δ	129.99
<b>TM-V71A</b> 50w 2m/50w 440 FM Xcvr .....	399.99
DFK-3D Detachable front panel kit .....	47.99
MJ-88 Modular to 8-pin mic adapter .....	32.99
PG-2N Extra DC cable .....	17.99
PG-5A Packet data cable .....	15.99



## Kenwood - continued AES Price

PG-5F	Extension cable kit	71.99
PG-5G	Programming interface kit	37.99
PG-5H	PC interface kit	59.99
RC-D710	TNC/APRS control head	329.99
PG-5J	Interface kit; external TNC w/RC-D710	87.99
SP-50B	High quality external mobile spkr	55.99
VGS-1	Voice guide & storage unit	67.99
TM-D710A	50w 2m/50w 440 FM Xcvr/TNC	599.99
MJ-88	Modular to 8-pin mic adapter	32.99
PG-2N	Extra DC cable	17.99
PG-5A	Packet data cable	15.99
PG-5F	Extension cable kit	71.99
PG-5G	Programming interface kit	37.99
PG-5H	PC interface kit	59.99
SP-50B	High quality external mobile spkr	55.99
VGS-1	Voice guide & storage unit	67.99
TM-271A	60w 2m FM Xcvr w/WX alert	169.99
MJ-88	Modular to 8-pin mic adapter	32.99
PG-2N	Extra DC cable	17.99
PG-5D	PC interface cable	78.99
SP-50B	High quality external mobile spkr	55.99
BC-19	Rapid charger; TH-D7A(G)	64.99
BT-11	4-AA battery holder; TH-D7A(G)	17.99
DFK-3	9' separate disp cable kit; 642/742	24.99
DFK-3C	9' sep disp cable kit; TMG707A	44.99
DFK-4	13' remote cable kit; 642/742AD	59.99
DFK-4C	13' remote cable kit; TMG707A	64.99
DFK-7C	Dix 23' remote cable kit; TMG707A D	99.99
J29-0631-13	Belt clip for batt; D7A/G71A	4.99
KQT-8/TSU-6	Prog CTCSS decoder; TM-541A	39.99
MB-201	Extra mobile bracket; TMD-700A	19.99
MC-57DM	Back-lit TTP mic; 241/331/441/541	79.99
MC-58DM	Back-lit TTP mic; 251/733/742/255/7A	79.99
PB-34	9.6v 600mah 5w battery; TH-22	79.99
PB-39	9.6v 600mah 5w batt; TH-D7A(G)	57.99
PG-4S	PC interface cable; TM-G707A	32.99
PG-4W	PC software/cable; TH-D7A(G)	55.99
PG-4X	13' extension cable kit; TMD-700A	69.99
RC-D710	TNC/APRS control head	289.99
PG-5J	Interface kit; external TNC w/RC-D710	79.99
SC-45	Soft case for TH-G71A/PB-38/39	4.99
SC-47B	Black soft case for TH-D7A(G)	15.99
SC-47OR	Orange soft case for TH-D7A(G)	15.99
TH-K2AT	5w 2m FM HT/battery/charger	139.99
BT-14	6-AA battery holder	19.99
HMC-3	VOX/boom mic headset	48.99
KHS-21	Boom mic headset	33.99
KHS-26	Lapel clip mic/ear piece	24.99
KSC-24	Rapid charger	48.99
PB-43N	7.2v 1100mah NiMH battery	44.99
PG-2W	DC cable w/fuse	17.99
PG-3J	Cig lighter cord w/filter	37.99
PG-4Y	9-pin PC programming cable	32.99
SC-54	Soft case	16.99
SMC-32	Mini water resist rt angle spkr/mic	52.99
SMC-33	Speaker/mic w/remote control	65.99
SMC-34	Spkr/mic w/vol cont/function keys	32.99
WR-2	Water resistant bag; TH-22/42AT	29.99
TH-F6A	5w 2m/220/440 FM HT/lith ion	329.99
BT-13	AA battery case	25.99
HMC-3	VOX/boom mic headset	48.99
KHS-21	Boom mic headset	33.99
KHS-26	Lapel clip mic/ear piece	24.99
PB-42L	Extra 7.4v 1550mah lithium ion batt	79.99
PG-2W	DC cable w/fuse	17.99
PG-3J	Cig lighter cord w/filter	37.99
PG-4Y	9-pin PC programming cable	32.99
SC-51	Soft case w/swivel belt clip	16.99
SMC-32	Mini water resist rt angle spkr/mic	52.99
SMC-33	Speaker/mic w/remote control	65.99
SMC-34	Spkr/mic w/vol cont/function keys	32.99

## Kenwood - continued AES Price

WR-2	Water resistant bag	29.99
<b>CONSUMER ELECTRONICS</b>		
TKM-707	150w HF marine SSB Xcvr spec order	1249.99
KAT-1	HF marine auto ant tuner ...spec order	569.99
<b>KESTER (KES)</b>		
82-5000-0004	.5 oz 60/40 lead solder, .040 dia	\$ 3.99
<b>KLEINHUIS (KLE)</b>		
1309	Isolated grounding bar	\$ 14.99
<b>KOSS (KOS)</b>		
KTX/8	Collapsible stereophone w/vol control	\$ 14.99
QZ/5	Passive noise reduction stereophone	49.99
QZ/50	Active noise reduction stereophone	49.99
QZ/99	Noise reduction stereoph w/mono sw	59.99
QZ/2000	Active noise reduction stereophone	79.99
SparkPlug	Stereo ear buds	14.99
Y-88	Dual stereophone Y-adapter	4.99
<b>LDG (LDG)</b>		
AT-100Pro	160-6m 1-125w/100w 6m auto tuner	\$199.99
AT-200Pro	160-6m 5-250w/100w 6m auto tuner	229.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
AT-200PC	160-6m 5-250w/100w 6m PC ctrl tuner	169.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
AT-897	Bolt-on auto tuner for Yaesu FT-897	199.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
AT-7000	Tuner; IC7000/706/703/718/746/756	169.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
AT-1000	1000w PEP HF/100w 6m auto tuner	429.99
AT-1000Pro	1000w PEP HF/250w 6m auto tuner	549.99
RBA-1:1	Remote 1:1 balun; short random	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
KT-100	160-6m 125w/100w 6m auto tuner; Kenwood	199.99
RBA-1:1	Remote 1:1 balun; short random	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
Z-11Pro	160-6m 1-125w/100w 6m auto tuner	179.99
RBA-1:1	Remote 1:1 balun; short random	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
Z-100	160-6m 1-125w/50w 6m auto tuner	149.99
RBA-1:1	Remote 1:1 balun; short random	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
ALK-2	2-port audio/linear/key switch	49.99
DM-7800	Dual 4.5" meters for IC-7800	179.99
DTS-4	4-pos HF/6m 1500/250w ant switch	79.99
DTS-4R	Remote control for DTS-4	39.99
DTS-6	6-pos HF/6m 1500/250w ant switch	99.99
DTS-6R	Remote control for DTS-6	49.99
FT-METER	Multi-function meter for FT-857/897	49.99
MULTI-DC	12vdc distribution box	49.99
RCA-14	Transceiver cable breakout box	59.99
SLS-2	Microphone switch w/RJ-45 connectors	59.99
TW-2	6m-440 250w PEP talking wattmeter/SWR	139.99
<b>LA CROSSE (LAC)</b>		
EA-3010	Handheld wind indicator	\$ 49.99
IR-101	Infra-red thermometer	39.99
WS-450B	Color forecast station	69.99
WS-1612CH-IT	Professional wireless WX stn	139.99
WS-2010-13	PC interface/soft; WS-2010	29.99
WS-7013U	Wireless temperature station	12.99
WS-7013BZ	Wireless temperature station	14.99
WS-7014CH	Wireless forecast station	49.99
WS-7394U-CH-IT	Wireless forecast station	69.99
WS-8025AL	Dlx sun/moon wireless WX stn	79.99
WS-8035U-SAL-IT	Dlx wireless forecast stn	89.99
WS-8117U-IT-Oak	Atomic clock/in/out temp/moon	46.99
WS-9004U-IT	Wireless rain gauge	29.99

## La Crosse - continued AES Price

WS-9016TWC	Sun/moon wireless weather stn	D 49.99
WS-9023U-IT	Wireless temperature/humidity	29.99
WS-9080U-IT-CBP	Wireless temperature station	29.99
WS-9121U-IT-CBP	Wireless thermometer	19.99
WT-3102S	10" 12-hour analog atomic clock	19.99
WT-5120	Projection alarm/out temp/in humidity	39.99
WT-5431	Projection alarm w/remote temp	24.99
<b>LAKEVIEW (LAK)</b>		
9175	75m 7' Hamstick antenna	\$ 39.99
9160	60m 7' Hamstick antenna	39.99
9140	40m 7' Hamstick antenna	39.99
9130	30m 7' Hamstick antenna	39.99
9120	20m 7' Hamstick antenna	39.99
9117	17m 7' Hamstick antenna	39.99
9115	15m 7' Hamstick antenna	39.99
9112	12m 7' Hamstick antenna	39.99
9110	10m 7' Hamstick antenna	39.99
9106	6m 4.5' Hamstick antenna	39.99
901	Dipole mount for 2 Hamsticks	19.99
IM-1	Inducti-match for 75-12m mobile ant	26.99
TM-1	License plate mount, 3/4-24	49.99
<b>LARSEN/PULSE (LAR)</b>		
<b>27-31 MHz ANTENNA</b>		
NMO-27B	10m black ant only (no mount)	\$ 39.99
NMO-27C	10m ant only (no mount)	35.99
<b>47-54 MHz ANTENNA</b>		
NMO-50B	6m black ant only (no mount)	\$ 39.99
NMO-50C	6m ant only (no mount)	35.99
<b>144-174 MHz ANTENNAS</b>		
NMO-150B	2m black ant only (no mt), 3 db	\$ 36.99
NMO-150C	2m ant only (no mount), 3 db	33.99
OM-150CK	2m no ground plane antenna	69.99
<b>440-460 MHz ANTENNA</b>		
NMO-440C	440 ant only (no mount), 3.4db	\$ 32.99
<b>890-960 MHz ANTENNA</b>		
NMO-900B	900 black ant only (no mt), 3.4db	\$ 42.99
MM-2/70PL	2m/440 0/1.8db mag mt ant	64.99
NMO-2/70B	2m/440 blk ant only (no mt), 1.6/3.5db	84.99
NMO-2/70-SH	2m/440 ant (no mt), 0/1.8db	52.99
NMOQ-Spec	136-960 MHz 1/4 wave ant (no mt)	12.99
NMOQ-Spec-B	136-960 black 1/4 wv ant (no mt)	18.99
NMOQ-Spec-K	136-960MHz 1/4 wv 3/4" hole ant	28.99
GPS-NM002	GPS NMO mount ant (no mt)	69.99
NMO-150450800	3-band scanner ant (no mt)	32.99
<b>ON GLASS ANTENNAS</b>		
KG-144-UD-PL	2m on glass antenna	\$ 94.99
KG-440-UD-PL	440 on glass antenna	34.99
KG-2/70-CX-PL	2m/440 on glass antenna	149.99
<b>KG-Reinstall</b> Reinstall kit for KG-ants		
		10.99
<b>KULDUCKIES - For Hand-helds</b>		
KD4-2/70	2m/440 9" BNC Kulduckie	\$ 42.99
KD14-2M-HW	2m 44.5" BNC telescopic whip	29.99
KD14-445	440 6.5" BNC Kulduckie	14.99
<b>ACCESSORIES</b>		
BSA-K	144-512MHz base mtg kit; NMO/UHF ant	\$ 56.99
HP-34	3/4" hole plugs (5)	3.99
NMO-CAP-B	Black rain cap for NMO mount	6.99
NMO-K	3/4" hole mt w/coax for NMO ant	19.99
NMO-KHF-UD	3/4" NMO hole mt/coax (less plug)	15.99
NMO-MMR	Round mag mt, coax for NMO ant	36.99
NMO-TLP	Low profile tnk lid mt, coax; NMO ant	32.99
PO-K	Roof mt, coax for SO-239 ant	34.99
PO-MM	Magnet mt, coax for SO-239 ant	39.99
RG-SS	Extra super seal NMO gaskets (3)	6.99
SPRING	Shock spring	12.99
TMB-34	Trunk mtg bkt for NMO antenna	6.99
TMB-34B	Black trunk mtg bkt for NMO ant	9.99



## Larsen - continued

## AES Price

W-270B 2m/440 black replacement mobile whip	32.99
W-KG270 2m/440 replacment on glass whip	32.99
W-490 49" replacement mobile whip	10.99
W-490B Black 49" replacement mobile whip	14.99

## LIDO (LID)

LM-100 Vent mount for remote heads	\$ 14.99
LM-H Side grip holder for LM-100	14.99
LM-200EXP Visor mount w/express mount	19.99
LM-300 Seat bolt mount	24.99
LM-400EXP WindowMate mt w/express mount	19.99
LM-500H Low vibration windshield/dash mt	29.99
LM-600 LoBoy low profile universal mt/swivel	14.99
LM-700 Ultamount univ mt; radio control heads	24.99
LM-801EXP Cup holder mt w/express mount	24.99
LM-900BG Bug Mount; dash/console/windshield	19.99
LM-1000EXP Motorcycle/bike mt/express mount	19.99
LM-1100 HD alum motorcycle mt for rem head	39.99
LM-1200 Vent mount for microphone hang up	7.99
LM-25 Dash bean bag only	19.99
LM-2500 Dash bean bag mount	29.99
LM-2500H Dash bean bag mt w/side grip holder	39.99
Adhesive Kit 1 For LoBoy and Bug Mounts	5.99
Adhesive Kit 2 For LM-400 series/LM-500 series	4.99

## LIGHTWAVE (LIG)

LW-HT 4 LED/3 AA-cell illuminator head torch	D \$ 19.99
LW-PB 1 LED/2 lith-cell pocket flashlight	D 4.99
LW-3000 7 LED/3 C-cell flashlight	D 19.99
LW-4000 10 LED/3 D-cell flashlight	D 29.99

## LOGSAT (LOG)

Logsat Professional Satellite tracking CDRom	\$ 69.99
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## M<sup>2</sup> (MSQ)

6M-3SS 6m 6.06db 3el 5' 9" boom beam	\$153.99
6M-3 6m 50-50.6 or 51-54 6.4db 3el 6'9" bm beam	184.99
6M-5X 6m 50-50.5 or 51-54 9.4db 5el 18' bm beam	307.99
6M-7JHV 6m 50-50.4 10.9db 7el 30'8"bm beam	380.99
6M-HO-LOOP 6m 50-50.3 4.4db horiz loop ant	140.99
6" x 1/2" 3/8-24 mobile mast for loop	13.99
16" x 1/2" 3/8-24 mobile mast for loop	15.99
18" x 5/8" 3/8-24 mobile mast for loop	21.99
36" x 1/2" 3/8-24 mobile mast for loop	34.99
50" x 1/2" 3/8-24 mobile mast for loop	38.99
Mast/Top Bkt Top bracket for mast; HO stack	23.99
2M-3SS 2m 6.16db 3el 3' boom beam	79.99
2M-4 2m 7.5db 4el 4' boom beam	140.99
2M-7 2m 10.3db 7el 8'10" boom beam	156.99
2M-9SSB/FM 2m SSB or FM 12db 9el 14' 6" boom	182.99
2M-12 2m 12.8db 12el 19'6" boom beam	245.99
2M-5WL 2m 14.8db 17el 33' boom beam	299.99
2M-18XXX 2m 144-146 15.3db 18el 36'3" boom	299.99
2M-CP14 2m 10.3db 7h/7v 10'6"bm circ beam	245.99
2M-CP22 2m 12.5db 11h/11v 18'6"boom circ	299.99
PS-2M 2m polarity switch; circ pol beam	218.99
FG X-Boom Kit For circular antennas, etc.	202.99
2M-HO-LOOP 2m 144-144.5 4.86db horiz loop	61.99
6" x 1/2" 3/8-24 mobile mast for loop	13.99
16" x 1/2" 3/8-24 mobile mast for loop	15.99
18" x 5/8" 3/8-24 mobile mast for loop	21.99
36" x 1/2" 3/8-24 mobile mast for loop	34.99
50" x 1/2" 3/8-24 mobile mast for loop	38.99
Big-Foot 4x-mag mt; 2M-HO-LOOP stack/etc	129.99
MAG-KIT Magnet mt kit; single 2m-HO-LOOP	30.99
Mast/Top Bkt Top bracket for mast; HO stack	23.99
STACK-KIT Stack kit for 2 2m-HO-LOOP's	87.99
EB-144/RK-2M 2m Eggbeater w/reflector kit	269.99
222-5SS 222-225 8.16db 5el 3' boom beam	69.99
222-7EZ 220 9.8db 7el 5' 8" boom beam	99.99
222-10EZ 220 12db 10el 9' 9" boom beam	156.99
222-5WL 220 15.2db 15el 23'3" boom beam	199.99
222-7WL 220 16.4db 23el 32'5" boom beam	249.99

## M<sup>2</sup> - continued

## AES Price

222-HO-LOOP 220-224 4.75db horiz loop ant	49.99
6" x 1/2" 3/8-24 mobile mast for loop	13.99
16" x 1/2" 3/8-24 mobile mast for loop	15.99
18" x 5/8" 3/8-24 mobile mast for loop	21.99
36" x 1/2" 3/8-24 mobile mast for loop	34.99
50" x 1/2" 3/8-24 mobile mast for loop	38.99
MAG-KIT Magnet mt kit; single 222-HO-LOOP	30.99
Mast/Top Bkt Top bracket for mast; HO stack	23.99
440-6SS 420-450 8.86db 6el 3' boom beam	78.99
420-50-11 432 11.3db 11el 5' bm rear mt beam	140.99
440-18 432 14.5db 18el 11'4" boom beam	184.99
440-21ATV 432 15.9db 21el 14'6" boom ATV	149.99
436-CP30 432 14.5db 15h/15v 9'9"bm circ beam	357.99
436-CP42UG 432 16.8db 21h/21v 18'10"bm circ	399.99
PS-70CM 432 polarity switch; circ pol beam	218.99
FG X-Boom Kit For circular antennas, etc.	202.99
432-9WL 432 17.3db 28el 21' boom beam	264.99
432-HO-LOOP 430-436 5db horiz loop ant	61.99
6" x 1/2" 3/8-24 mobile mast for loop	13.99
16" x 1/2" 3/8-24 mobile mast for loop	15.99
18" x 5/8" 3/8-24 mobile mast for loop	21.99
36" x 1/2" 3/8-24 mobile mast for loop	34.99
50" x 1/2" 3/8-24 mobile mast for loop	38.99
Big-Foot 4x-mag mt; 432-HO-LOOP stack/etc	129.99
MAG-KIT Mag mt kit; single 432-HO-LOOP	30.99
STACK-KIT Stack kit; 2 432-HO-LOOP's	87.99
EB-432/RK-70CM 432 Eggbeater w/reflector kit	245.99
23CM-2EEZA 1.2GHz 16db 22el 5'2" bm beam	184.99
23CM-35 1.2GHz 18.4db 35el 10' bm beam	199.99
2M-2-Port-PD 2m 2-port type N power divider	86.99
2M-4-Port-PD 2m 4-port type N pwr divider	99.99
70CM-2-Port-PD 432 2-port N power divider	86.99
23CM-2-Port-PD 1.2GHz 2-port N power divider	59.99
OR-2800PD 35 sq ft azimuth rotor/control/8-wire	1598.99

## MFJ (MFJ)

### ANTENNA TUNERS

9982 2.5kw continuous w/roller inductor	\$649.99
989D Dlx 1.5kw PEP w/roller inductor	349.99
986 3kw PEP w/roller inductor	319.99
962D 1.5kw PEP/meter/switch/balun/roller ind	279.99
969 HF & 6m 300w roller inductor tuner	199.99
949E 300w/PEP meter/dummy/switch/balun	169.99
948 300w/meter/switch/balun	149.99
941E 300w tuner w/meter, switch, balun	129.99
945E 300w tuner w/meter plus 6m	119.99
20 Mobile bracket for 945E	6.99
901B Versa Tuner 200w ant tuner	99.99
910 80-10m mobile antenna matcher	29.99
16010 200w random wire tuner	69.99
974B 3.5-54MHz balanced line ant tuner	179.99
974HB 1.8-54MHz balanced line ant tuner	199.99
991B 150w automatic antenna tuner	209.99
993B 300w deluxe automatic antenna tuner	249.99
994B 600w automatic antenna tuner	339.99
1316 12vdc 1.5A adapter; auto tuners	21.99
5124A Alinco interface cable; auto tuners	6.99
5124I Icom interface cable; auto tuners	19.99
5124K Kenwood interface cable; auto tuners	59.99
5124Y Yaesu interface cable; auto tuners	59.99
998 1.5kw automatic antenna tuner	649.99
1316 12vdc 1.5A adapter; auto tuners	21.99
5114I Icom interface cable	19.99
5114K Kenwood interface cable	19.99
5114Y Yaesu interface cable	19.99
902 80-10m 150w travel tuner	99.99
903 6m antenna tuner	69.99
904 80-10m 150w travel tuner w/meter	129.99
906 6m antenna tuner w/wattmeter	99.99
914 Auto tuner extender	79.99
921 2m/220 300w PEP tuner/SWR/wattmeter	89.99

## MFJ - continued

## AES Price

924 440 MHz 300w PEP tuner/SWR/wattmeter	89.99
934 300w tuner w/artificial ground	199.99

### MEMORY KEYS

451 Dedicated CW keyboard w/memory	\$119.99
452 CW keyboard/keyer w/disp/keyboard	149.99
452X CW keyboard/keyer w/disp, no keyboard	119.99
498 Dlx CW keyboard/keyer w/disp/keyboard D	79.99
490 492 Keyer/Benchner paddle combo	209.99
490X 492 keyer for use w/Benchner or 564	119.99
564 Deluxe iambic chrome paddle for 490X	69.99
564B Deluxe iambic black paddle for 490X	69.99
492 192 char menu driven memory keyer	119.99
495 Millennium memory keyer	179.99

### ELECTRONIC KEYS

401D Econo keyer	\$ 69.99
407D Deluxe electronic keyer	79.99

### KEYER/PADDLES

422D Keyer/Benchner paddle combination	\$189.99
422DX Keyer only	99.99
441 SlimLine econo keyer	79.99
442 SlimLine keyer/Benchner paddle combo	119.99
447 SlimLine deluxe keyer	99.99
564 Deluxe iambic chrome paddle	69.99
564B Deluxe iambic black paddle	69.99

### COMPUTER INTERFACES

1224 Computer Interface	D \$ 59.99
1285 Software for IBM; 1224	D 6.99
781 DSP filter for any TNC or controller	9.99
1214PC Multimode interface for IBM	99.99
1272B TNC to microphone interface	39.99
1272BYH TNC/mic switch; KAM HF	29.99
1272BYV TNC/mic switch; KAM VHF	29.99
1272M TNC/mic RJ-45 switch; MFJ/PK-900	34.99
1272MYV TNC/mic RJ-45 sw; KAM VHF; KPC3	39.99
1284M 3 1/2" IBM starter pack	D 29.99
1284W MFJCOM for Windows	14.99
1289W Multicom for Windows with cable	29.99
1289WD Multicom for Windows, less cable	24.99

### SSB/CW FILTERS

751B Super tunable CW audio filter	\$ 89.99
752C Dual tunable SSB/CW filter	109.99
784B Deluxe tuneable DSP filter	259.99
5184 Cable pack for 784B	9.99

### PHONE PATCH

624D 8p phone patch w/audio VU meter	D \$119.99
624E 8p/mod phone patch w/audio VU meter	149.99

### DUMMY LOADS

250 2kw PEP dummy load w/oil	\$ 69.99
250X 2kw PEP dummy load, less oil	49.99
21 1 gal industrial xfmr oil for wet dummy	29.99
260C 300w 0-650 MHz dry dummy load	39.99
260CN 300w 0-650 MHz type N dry dummy	49.99
264 1.5kw 0-650 MHz dry dummy load	74.99
264N 1.5kw 0-650 MHz type N dry dummy	84.99
267 1.8-60 100w dry dummy load/SWR/wattmeter	159.99

### SWR/WATTMETERS

812B 144-220 MHz SWR/FS/wattmeter	\$ 39.99
815C 160-10m cross-needle SWR/wattmeter	109.99
816 1.8-30 MHz toroidal SWR/wattmeter	39.99
817C 2m/220/440 cross needle meter	119.99
841 2m 5w in-line HT wattmeter/SWR	49.99
844 Compact 2m/440 SWR/wattmeter	79.99
860 1.8-60 MHz cross-needle meter	59.99
862 2m/220/440 cross-needle meter	69.99
864 1.8-60MHz/2m/440 cross needle meter	99.99
868 HF 6.5" diagonal PEP SWR/wattmeter	149.99
870 1.6-60MHz Grandmaster SWR/wattmeter	109.99
872 1.8-200MHz Grandmaster SWR/wattmeter	109.99
873 125-525MHz Grandmaster SWR/wattmeter	129.99
874 1.8-525MHz Grandmaster SWR/wattmeter	149.99



## MFJ - continued

## AES Price

### SHORTWAVE ACCESSORIES

306	Car radio SWL converter .....	\$109.99
956	LW/MW/SW preselector/tuner .....	69.99
959C	SW receiver ant tuner w/preamp .....	119.99
1020C	3-30 MHz indoor active receive ant ..	99.99
1022	300KHz-200MHz active rcv antenna ....	69.99
1024	05-30 MHz outdoor active rcv ant .....	149.99
1040C	Deluxe receiver preselector .....	119.99
1045C	Receiver preselector .....	89.99

### BOOKS

30	Golden Classics book .....	\$ 14.95
32	Packet Made Easy book .....	12.95
33	Mobile Handbook .....	14.95
36	Shortwave Listeners Guide; Apts/Condos ..	12.95
37	Ham Communications Circuit Files book ..	12.95
38	Easy-up Antennas book .....	19.95
3036	The Packet Radio Operators book .....	14.95
3101	Fox Hunt Adventure book .....	9.95
3211	Technician license guide .....	12.95
3213	General license guide .....	12.95
3301	Troubleshooting Antenna & Feedlines book	14.95
3302	73 Dipole and Long-Wire Antennas .....	14.95
3303	73 Vertical, Beam, and Triangle Ants ...	14.95
3305	Antennas & Transmission Lines book ...	19.95
3400	Morse Code: Breaking the Barrier .....	19.95
3502	Solid State QRP Projects .....	12.95
3504	FET Principles, Experiments & Projects ..	16.95
3506	Ferromagnetic-Core Design book .....	19.95
3507	Practical RF Design Manual .....	19.95
3509	Ladder Crystal Filters .....	19.95

### CLOCKS

105C	24-hour quartz wall clock .....	\$ 24.99
107B	24-hour digital clock .....	12.99
108B	24/12-hour dual disp digital clock .....	21.99
112B	Deluxe world map clock .....	29.99
113	24/12-hr 1.8" LED clock/batt back-up ...	19.99
118	Giant 24/12 hour LCD clock .....	29.99
123	Eternity solar atomic clock .....	49.99
123B	Eternity solar atomic clock .....	79.99
125	Calendar 24-hour analog wall clock .....	34.99

### ANTENNAS

1402	2m/440 0/3db 16.5" 100w ant only .....	\$ 34.99
1412	2m/440 3/5.5db 40" 200w ant only .....	49.99
1422	2m/440 3.2/5.7db 41.5" 150w ant only ..	49.99
1432	2m/440 5/7.6db 62.5" 150w ant only ..	69.99
1436	6m/2m/440 2.15/4.5/7.2db 59" ant only ..	79.99
333BM	3.5" HiFlux NMO mag mt; not 1436 ..	14.99
333BS	3.5" HiFlux SO-239 mag mt not 1436 ..	14.99
335BM	5" HiFlux NMO mag mt; not 1436 ..	21.99
335BS	5" HiFlux SO-239 mag mt; not 1436 ..	21.99
340	Mirror/luggage pipe clamp mount .....	34.99
345S	Trunk/hatchback lip mt SO-239 mt ..	34.99
1516	2m 15' vertical base antenna .....	99.99
1621	40-10m 54" portable ant w/tuner .....	99.99
1622	40-2m apartment antenna .....	99.99
1624	40-6m mini bugcatcher antenna .....	89.99
1661	40-6m portable manual screwdriver ant ..	139.99
1664	80-6m portable manual screwdriver ant ..	169.99
1710	2m 1/2 wave telescopic BNC antenna ....	9.99
1712	2m/440 telescopic BNC antenna .....	14.99
1712S	2m/440 telescopic SMA antenna .....	14.99
1713	2m/440 SuperFlex Thin Duk HT ant .....	19.99
1713S	2m/440 SuperFlex SMA Thin Duk ant ..	19.99
1714	2m 1/2 wave telescopic BNC antenna ....	16.99
1715	2m/440 SuperFlex gain Thin Duk HT ant ..	24.99
1715S	2m/440 SuperFlex gain SMA Thin Duk ..	24.99
1716	2m/440 duck for HT .....	16.99
1716S	2m/440 SMA duck for HT .....	16.99
1717	2m/2.15db 440 duck for HT .....	21.99
1717PL	2m/440 foldover flexi-duck, PL-259 ..	24.99
1717S	2m/2.15db 440 SMA duck for HT .....	21.99

## MFJ - continued

## AES Price

1719	2m/440 BNC Midget Duck .....	19.99
1719S	2m/440 SMA Midget Duck .....	19.99
1720S	6m/2m/440 SMA Duck .....	29.99
1721	2m HT UltraLite mag mt antenna .....	15.99
1722	2m/440 HT UltraLite mag mt BNC ant ..	19.99
1724B	2m/440 magnet mt antenna .....	24.99
1728B	6m 1/2 wv/2m 1/2 wv mag ant/PL259/BNC	34.99
1729	2m/440 magnet mt antenna .....	39.99
1730	2m pocket roll-up vertical antenna .....	29.99
1734	2m/440 2.6/6.3db glass mt antenna ...	44.99
1736	6m J-Pole travel antenna .....	29.99
1738	2m 2.6db glass mt antenna .....	34.99
94	Remount kit for 1734/1738 .....	4.99
1740	2m 1/2 wave ground plane ant .....	29.99
1750	2m 1/2 wave ground plane ant .....	34.99
1752	220 1/2 wave ground plane ant .....	34.99
1754	2m/440 ground plane antenna .....	39.99
1762	6m 6db 3 el 6' boom beam .....	99.99
1763	2m 3el portable beam .....	54.99
1764	2 & 6m dual 1/2 wv gain base ant ....	59.99
1768	2m/440 4/7 el beam antenna .....	99.99
1778	G5RV 160-10m 102' ant (needs tuner) ..	44.99
1786	Super Hi-Q 10-30 MHz loop/dlx control ..	419.99
1796	40/20/15/10/6/2m 10' vertical ant .....	219.99
1798	80/40/30/20/17/15/12/10/6/2m 20' vert	289.99
1800	2.4GHz wi-fi 16 element 15db beam ...	29.99
5606SR	6' N male - rp-SMA female cbl for 1800	24.99
1899T	80-6m telescopic antenna; FT-817 ....	79.99
1910	33' telescoping fiberglass mast .....	79.99
1954	3/8-24 10' telescopic whip .....	29.99
1956	3/8-24 12' telescopic whip .....	34.99

### CABLES

5020	MFJ TNC - Yae FT50R/compat .....	\$ 6.99
5020YV	KAM VHF/KPC3 - Yae FT50R/compat ...	6.99
5022YV	KAM VHF/KPC3 - Ali/Sta HT cable .....	6.99
5024	MFJ TNC - Ico/Yae/Al/RS HT cable .....	9.99
5024B	PK/PacComm/compat - Ico/Yae/RS .....	6.99
5024YV	KAM VHF/KPC3 - Ico/Yae/Al/RS HT ...	17.99
5026	MFJ TNC - Kenwood HT cable .....	6.99
5060	MFJ TNC - Ken/Yae acc 6-pin mini DIN ..	19.99
5060YQ	KPC9612 - Ken/Yae acc 6pin mini DIN ..	9.99
5060YV	KAM VHF/KPC3 - Ka/Ya acc 6pin mni DIN	21.99
5063	MFJ TNC - Icom HF acc 8-pin DIN .....	9.99
5063YH	KAM DIN HF - Icom HF acc 8-pin DIN ..	9.99
5064	MFJ TNC - Icom VHF acc 8-pin DIN .....	6.99
5065	MFJ TNC - Ico IC-706 acc 13-pin DIN ..	14.99
5065YH	KAM HF - Ico IC-706 acc 13-pin DIN ..	21.99
5065YV	KAM VHF - Ico IC706 acc 13-pin DIN ..	21.99
5066	MFJ TNC - Kenwood HF acc 13-pin DIN ..	9.99
5066YH	KAM HF - Ken HF acc 13-pin DIN .....	9.99
5080	MFJ TNC - Yaesu 8-pin cable .....	6.99
5080M	MFJ TNC - Yaesu 8-pin modular .....	9.99
5080YH	KAM HF port - Yaesu 8-pin cable .....	6.99
5080YV	KAM VHF/KPC3 - Yaesu 8-pin cable ..	17.99
5082	Open end - 8-pin mic cable .....	11.99
5084	MFJ TNC - Icom 8-pin cable .....	6.99
5084MYV	KAM VHF/KPC3 - Icom 8-pin mod ..	17.99
5084YH	KAM HF port - Icom 8-pin cable .....	6.99
5084YV	KAM VHF/KPC3 - Icom 8-pin cable ..	9.99
5086	MFJ TNC - Kenwood/Alinco 8-pin cable ..	9.99
5086M	MFJ TNC - Kenwood 8-pin modular .....	6.99
5086MYV	KAM VHF/KPC3 - Ken 8-pin mod ...	17.99
5086YH	KAM HF port - Ken/Al/RS 8-pin cable ..	6.99
5086YV	KAM VHF/KPC3 - Ken/Al/RS 8-pin cable	17.99
5088M	MFJ TNC - Radio Shack 8-pin modular ..	6.99
5205	5-pin DIN open end cable .....	2.99
5208	Open end - Ico HF/VHF acc 8-pin DIN ..	4.99
5213	Open end - Kenwood acc 13-pin DIN ...	11.99
5220R/5220	Open end - Yae FT50R/compat .....	4.99
5222	Open end - Ali split HT cable .....	4.99
5224	Open end - Ico/Yae/Al/RS HT cable ...	4.99

## MFJ - continued

## AES Price

5268	Open end - modular phone plug cable ..	11.99
5412	IBM printer cable .....	4.99
5429	Cable/adapt; RS-232 to USB w/drivers ..	24.99
5803/10	3' coax jumper cable .....	5.99

### RADIOS/TRANSCIVERS

8100K	Shortwave regenerative Rcvr kit .....	\$ 79.99
8100W	Shortwave regenerative Rcvr wired ...	109.99
8621X2	5w APRS ready 2m data radio/144.39 ..	189.99
4110	Portable AC power supply .....	59.99
5100	Data radio cable - MFJ/TAPR .....	6.99
5100YV	Data radio cable - KAM/KPC-3 ...	6.99
5106	Open end - 6pin mini Ken/Yae cable ..	2.99
8708	4ch ham micro ATV transmitter .....	159.99
9015	5w 15m CW Xcvr .....	199.99
9020	5w 20m CW Xcvr .....	199.99
9030	5w 30m CW Xcvr .....	199.99
9040	5w 40m CW Xcvr .....	199.99
27	Handle for CW station .....	6.99
412	Plug-in Curtis keyer .....	49.99
726	Plug-in audio filter .....	49.99
971	200w portable ant tuner w/meter .....	119.99
1772	Portable 20m dipole .....	39.99
1774	Portable 40m dipole .....	39.99
4110	Portable AC power supply .....	59.99
4114	Rechargeable power pack .....	79.99
9402X	7w PEP 2m SSB Xcvr w/mic .....	279.99
9406X	10w PEP 6m SSB Xcvr w/mic .....	279.99
9410X	20w PEP 10m SSB Xcvr w/mic .....	269.99
9420X	20w PEP 20m SSB Xcvr w/mic .....	259.99
9440X	12w PEP 40m SSB Xcvr w/mic .....	259.99
9475X	12w PEP 75m SSB Xcvr w/mic .....	259.99
415B	CW adapter for 9420X/9440X .....	49.99
416	CW adapter for 9402X/9406X/9410X ..	49.99
971	200w HF portable ant tuner w/meter ..	109.99
1770A	10m dipole for 9410X .....	39.99
1772	Portable 20m dipole .....	39.99
1774	Portable 40m dipole .....	39.99
4110	Portable AC power supply .....	59.99
4114	Rechargeable power pack .....	79.99

### ACCESSORIES

1312D	12vdc 500ma adapter, 2.1mm plug ..	\$ 15.99
1316	12vdc 1.5A adapter .....	21.99
15	HamGear belt loop radio holder .....	14.99
16C01	Glazed ceramic end insulator .....	.99
18	HamGear chest harness/cargo pocket ....	29.99
92AA01	AA NiMH cell .....	3.49
92AA10	10-pack AA NiMH cells .....	29.99
201	1.5-250 MHz dip meter .....	139.99
202B	RF noise bridge .....	79.99
207	160-10m SWR analyzer .....	99.99
208	2m SWR analyzer .....	99.99
209	1.8-170 MHz SWR analyzer .....	149.99
212	MatchMaker tune up device .....	99.99
219B	SWR analyzer, 440 MHz/N/SO-239 adapt	119.99
224	2m FM signal analyzer .....	169.99
249B	1.8-170 MHz SWR analy/LCD counter ..	249.99
259B	1.8-170 MHz SWR analy/RF res meter ..	269.99
269	1.8-170+440 MHz SWR analy/RF res mtr	349.99
29C	Carrying case w/window; 209/249B/259B	24.99
39C	Carrying case w/window; 269 .....	24.99
66	1.8-30/30-170 dip coils; 209/249B/259B	24.99
92AA10	10-pack 1300ma AA NiMH cells ...	29.99
98	Package of 39C/66/1312D for 269 .....	60.99
98B	Pack of 92AA10/39C/66/1312D for 269	93.99
99	Pack of 29C/66/1312D; 209/249B/259B	60.99
99B	Pack: 92AA10/29C/66/1312D; 209/249B/259B	93.99
99C	Pack - 92AA10/1312D; 209/249B/259B/269	45.99
731	RFI filter for SWR analyzer .....	99.99
1312D	12vdc 500ma ps for SWR analyzers ..	15.99
270	Guardian Angel 400w PEP lightning protect	29.99



## MFJ - continued AES Price

97 Gas tube plug for 270 .....	9.99
281 ClearTone communications speaker .....	12.99
2881 Headset/mic; Icom/ADI/Sta/RS/older Yae .....	24.99
288K Headset/mic for Kenwood .....	24.99
288Y Headset/mic; Ico Q7/Yae FT10/50/VX1 ..	24.99
2921 Earph/mic; Ico/older Yae/compatibles ..	17.99
292Y Earphone/mic; Ico Q7/Yae FT10/50/VX1 ..	17.99
2931 Rubber flex earloop earbud/mic; Icom ..	24.99
293K Rubber flex earloop earbud/mic; Kenwood ..	24.99
293Y Rubber flex earloop earbud/mic; Yaesu ..	24.99
2951 Mini spkr/mic; Icom & compatible HT ...	16.99
295K Mini spkr/mic; Kenwood & compatible HT ..	16.99
295Y Mini spkr/mic; Ico Q7/Yae FT10/50/VX1 ..	16.99
297 Desk mic with flexible boom .....	69.99
5082 Open end - 8-pin mic cable for 297 ..	11.99
5268 Open end - mod phone plug cbl; 297 ..	11.99
5397I Cable/8-pin for 297; Icom HF .....	17.99
5397K Cable/8-pin for 297; Kenwood HF ...	17.99
5397Y Cable/8-pin for 297; Yaesu HF .....	17.99
5397MX Cable/modular for 297; Icom/Kenwood ..	17.99
5397MY Cable/modular for 297; Yaesu .....	17.99
310 BNC HT antenna window mount clip .....	19.99
310S SMA HT antenna window mount clip ....	19.99
336S 5" tri-mag mt for S0239 ant/17' coax ..	39.99
336T 5" tri-mag mt for 3/8-24 ant/17' coax ..	39.99
341M 17' antenna cable; NMO .....	19.99
341S 17' antenna cable; SO-239 .....	19.99
342S SO-239 mirror/rack/pipe mount w/coax ..	14.99
342T 3/8-24 mirror/rack/pipe mount .....	9.99
343 1 1/2" hole mount for 3/8-24 whip .....	9.99
344 Pipe/mirror horiz mount; 3/8-24 .....	9.99
347 HF stick mini dipole mount .....	19.99
382 Deluxe amplified communications spkr ..	39.99
388 Cyber Ear 12db ear amplifier .....	29.99
392B Deluxe communication headphones .....	24.99
414 Professional Morse Tutor w/LCD .....	209.99
417 Code Tutor with QSO .....	39.99
418 Code Tutor with LCD display .....	89.99
434B Deluxe Voice Memory Keyer .....	189.99
73 Remote control head w/cbl; 434/434B ..	34.99
461 Pocket size Morse code reader .....	89.99
5161 DB-9 PC serial port cable .....	16.99
5162 Cable for radio external speaker .....	7.99
462B RTTY/ASCII/CW/AMTOR Rcvr multi-reader ..	199.99
5162 Cable for radio external speaker .....	7.99
464 CW reader w/built-in keyer .....	189.99
550 Hand key .....	14.99
554 Deluxe CW practice oscillator .....	99.99
557 Code oscillator w/key .....	39.99
616 Speech intelligibility enhancer .....	189.99
1316 12vdc 1.5A adapter .....	21.99
281 ClearTone speaker (requires 2) .....	12.99
392B Deluxe communication headphones ..	24.99
633 Rapid charger; NiMH/nicad AA/AAA/9V ..	29.99
662 Simplex pocket repeater .....	89.99
701 Toroid RFI filters .....	26.99
704 1kw low-pass filter .....	59.99
762 81db 170MHz BNC attenuator .....	89.99
801 Super compact field strength meter .....	29.99
802 Bipolar field strength meter .....	49.99
802X Field strength/remote meter combo .....	74.99
805 RFI current detector meter .....	99.99
850B AC line voltage monitor .....	24.99
852 AC power line noise finder meter .....	119.99
854 HF RF current meter .....	119.99
886 1MHz - 3GHz pocket frequency counter ..	129.99
888 Deluxe 10Hz - 3GHz frequency counter ..	199.99
890 DX beacon monitor .....	119.99
912 W9INN remote balun .....	69.99
916B 2m/440 duplexer .....	34.99
931 Artificial ground unit .....	109.99
1025 Noise canceling antenna .....	169.99

## MFJ - continued AES Price

1026 Deluxe noise canceling unit w/antenna ..	189.99
1046 1.6-33MHz receiver passive preselector ..	109.99
1048 1.6-33MHz Xcvr passive preselector .....	129.99
1112 Multiple DC outlet .....	44.99
1116 Dlx multiple DC outlet .....	59.99
1117 High current multiple DC outlet .....	64.99
1118 Dlx high current multiple DC outlet .....	84.99
1263 2mic iv2nig out switch/1 round cbl/1 modlr cbl ..	119.99
5397MX Modular mic cable for 1263 .....	17.99
1273B Basic soundcard interface/soft; 8P-R ..	59.99
1273BM Basic soundcard interface/soft; 8P-M ..	59.99
1275 Soundcard/rig interface/software; 8P-R ..	109.99
1275M Soundcard/rig interface/software; 8P-M ..	109.99
1279 Super soundcard interface/soft; 8P-R ..	139.99
1279M Super soundcard interface/soft; 8P-M ..	139.99
1700C 6-pos combo ant/xmtr switch/protect ..	99.99
1701 6-position coax switch .....	69.99
1702C 2-pos coax switch/lightning protect ..	39.99
1702CN 2-pos 1.1GHz N switch/lightning protect ..	44.99
1703 2-rig/2-antenna RF safety switch .....	29.99
1704 4-pos 500 MHz switch/lightning protect ..	84.99
1704N 4-position type N switch .....	79.99
1925 Controller; Yaesu ATAS-series/other rigs ..	79.99
1925I2 Controller; Yae ATAS-series/Ico IC-706 ..	79.99
4035MV Dlx 30A adjustable ps, 35A surge ...	159.99
4103 Switching power supply; Yaesu FT817/etc ..	49.99
4125MV MightyLite 22A 3.5 lb switch ps, 25A surge ..	109.99
4225MV MightyLite 22A switch ps, 25A surge/meters ..	149.99
4245MV MightyLite 40A switch ps, 45A surge/meters ..	199.99
4602 House window antenna feedthrough panel ..	69.99
4712 160-2m 2-pos remote antenna switch ..	79.99
7707 NMO to 3/8/24 adapter .....	8.99

## MAGELLAN (MAG)

980654-01 MapSend DirectRoute; Pro/Color D ..	\$ 19.99
980654-03 MapSend DirectRoute; Gold/Plat/Col D ..	19.99

## MAHA (MAH)

AAA-T 1.2v 650mah AAA size NiMH batt D,ea ..	\$ 1.99
AA-FB 1.2v 1400mah AA NiMH batt w/tabs D,ea ..	1.29
MH-R-AA4 4pack 1.2v 2700mah AA NiMH cells ..	16.99
MH-96V200 9.6v 200mah 9v size NiMH batt D ..	12.99
MHS-DC-124 Cig adapter; MH-C124S/C204F D ..	19
MH-C777 Plus II Univ cgr/analyzer; lith/nicd/nimh D ..	74.99
MH-C801D 1-8 AA/AAA NiMH/NiCD quick charger ..	84.99
MH-C888 Univ drop-in rapid cgr/cond; nicad/nimh D ..	39.99
MHS-C800U External charger pin shell ...D ..	29
MHS-C801 Cup; T2/W32/TH22/79/FT10/50 D ..	2.99
MHS-C803 Cup; Kenwood TH-D7A/G71A ...D ..	2.99
MHS-C804 Cup; Icom IC-T8A/T81A ...D ..	2.99
MHS-C806 Cup; Ali 195/580/F1/G5/V5/etc D ..	2.99
MHS-DC-777 Cig lighter cord cgr/analyzer ...D ..	2.99
MH-C9000 4 AA/AAA NiMH WizardOne cgr/analyzer ..	69.99
MH-K5000 Quick cgr/conditioner w/4 AA2500 D ..	39.99
MH-BP-7 13.2v 1000mah Icom nickel hydride ..	69.99
MH-BP-8 8.4v 1300mah Icom nickel hydride ..	59.99
MH-BP-83 7.2v 1300mah Icom nickel hydride ..	29.99
MH-BP-173 9.6v 650mah Icom nickel hydride ..	69.99
MH-BP-180 7.2v 1000mah Icom nickel hydride ..	49.99
MH-BP-199 6v 700mah Icom nick hyd/clip ...D ..	14.99
MH-BP-200 9.6v 680mah Icom nick hydride/clip ..	59.99
MH-BP-211LI 7.4v 1800mah Icom Li-ion .....	69.99
MH-FNB-12 12v 1000mah Yaesu nickel hydride ..	59.99
MH-FNB-17 7.2v 1000mah Yaesu nickel hydride ..	49.99
MH-FNB-27 12v 1000mah Yaesu nickel hydride ..	59.99
MH-FNB-38 9.6v 650mah Yaesu nickel hydride ..	59.99
MH-FNB-41 9.6v 1000mah Yae nick hyd/spg clip ..	55.99
MH-FNB-V47 7.2v 1800mah Yae nick hyd/spg clip ..	49.99
MH-FNB-V57 7.2v 1500mah Yae nickel hydride ..	39.99
MH-FNB-58LI 7.4v 1200mah Yae Li-polymer ..	59.99
MH-FNB-72 9.6v 1700mah Yae nickel hydride ..	39.99
MH-FNB-80LI 7.4v 1500mah Yaesu Li-ion .....	59.99

## Maha - continued AES Price

MH-FNB-83 7.2v 2000mah Yae nickel hydride ..	59.99
MH-PB-8 12v 1300mah Kenwood nickel hydride ..	49.99
MH-PB-17 12v 1300mah Kenwood nickel hydride ..	49.99
MH-PB-18 7.2v 1300mah Ken nick hyd; wall cgr only ..	39.99
MH-PB-32 6v 1000mah Kenwood nickel hydride ..	47.99
MH-PB-34 9.6v 1000mah Kenwood nickel hydride ..	57.99
MH-PB-39 9.6v 1050 mah Ken nick hyd/clip ..	59.99
MH-PB-39H 6v 1800mah Ken nickel hyd/clip ..	59.99
MH-PB-42LI 7.4v 1800mah Ken Li-polymer ..	69.99
MH-800K 500mw spkr/mic w/clip; Kenwood ..	19.99
MH-800S 500mw spkr/mic/clip; Ali/Ico/Sta/Yae ..	19.99
MH-800Y 500mw spkr/mic; Yae FT50/VX1R ..	24.99

## MALDOL (MAL)

AH-14 20m telescoping ant w/BNC; FT-817.D ..	\$ 29.99
AH-28 10m telescoping ant w/BNC; FT-817.D ..	19.99
AH-C14 20m loading coil only w/BNC; FT-817 D ..	19.99
AH-C21 15m loading coil only w/BNC; FT-817 D ..	19.99
AH-C28 10m loading coil only w/BNC; FT-817 D ..	19.99
AH-W100RX 70-900MHz 40" tele BNC rcv ant ..	32.99
AS-20 2m/440 8.5" superflex SMA antenna ...	26.99
AS-25 2m/440 1" SMA antenna .....	19.99
AS-30 2m/440 15" 0/2.15db superflex SMA ant ..	29.99
AX-50 2m/440 0/5db 21" mobile antenna ....	49.99
AX-75 2m/440 3.2/5.7db 30" mobile ant .....	59.99
AX-95 2m/440 3.3/5.8db 38" mobile ant .....	66.99
EM-B80 Small trunk/hatch/van door lip mt ..	25.99
EM-5M Sm tnk/hatch mt (EM-B80) w/16.5" cbl ..	59.99
EX-104B 2m/440 black 0/2.15db 15" mob ...	44.99
EX-104BNMO 2m/440 blk 0/2.15db 15" NMO ..	44.99
EX-107RB 2m/440 black 2.6/4.9db 29" mob ..	56.99
EX-107RBNMO 2m/440 blk 2.6/4.9db 29" NMO ..	56.99
EX-510B 6m/2m/440 blk 0/2.15/5.5db 37" mob ..	66.99
EX-510BNMO 6m/2m/440 blk 0/2.15/5.5db 37" NMO ..	66.99
HMC-6S 20/15/10/6/2m/440 66" mobile ant ..	159.99
HMC-7C 40m loading coil for HMC-6S .....	34.99
HMC-35C 80/75m loading coil for HMC-6S ..	39.99
HVU-8 80/40/20/15/10/6/2/440 8.6' vert/radials ..	319.99
MH-209 2m/440 3" BNC duck .....	23.99
MH-209SMA 2m/440 3" SMA duck .....	23.99
MH-511 6m/2m/440 0/0/3.2db 20.75" SMA duck ..	37.99
MH-511 6m/2m/440 4" SMA duck .....	33.99
MH-610 2m/220/440 0/1.8/3.2db 14" SMA duck ..	49.99
MK-30R Motorized tnk lip/hatch/van door mt ..	109.99
MK-RR Roof rack bracket for MK-30H .....	19.99
PRM-T Large trunk/hatch/van door lip mt ....	33.99
SHG-140B 2m 4.1db 56" mobile antenna ...D ..	14.99
SHG-140BNMO 2m 4.1db 56" NMO mobile ant D ..	19.99

## MEADOW RIDGE (CRO)

### SOLID COPPERWELD ANTENNA WIRE

AN-122 100 feet No. 12 .....	\$ 39.99
AN-123 150 feet No. 12 .....	49.99
AN-124 250 feet No. 12 .....	79.99
AN-126 500 feet No. 12 .....	139.99
AN-128 1000 feet No. 12 .....	239.99
AN-181 250 feet No. 18 .....	24.99
AN-182 500 feet No. 18 .....	39.99

## MIDLAND (MID)

18-258 On glass mount mobile CB antenna ..	\$ 19.99
21-400 Deluxe mobile speaker w/3.5mm plug ..	22.99
74-250C SAME handheld WX/hazard alert radio ..	49.99
WR-300 AM/FW/SAME WX/hazard alert radio/ps ..	59.99
AVP-5 Accs/bat/cgr/leadpt/acadapt/headset/mt; NF-1 D ..	9.99
GXT-650VP4 22ch 5w GMRS/FRS hh/batts D,pair ..	79.99
LXT-210VP 22ch 2w GMRS/FRS hh/batts D,pair ..	39.99

## Miracle Antenna (MIA)

Ducker IL In-line HF rcv tuner; HH/QRQ xmit ..	\$139.99
Miracle Whip 3.5-450MHz 57" QRP ant/tuner ..	139.99



## AES Price

### MIRAGE (MIR)

A-1015G	50-52 FM/SSB 10/150w amp/preamp	\$359.99
B-34	2m FM 2/35w amplifier; no mob bkt	99.99
B-34G	2m FM/SSB 2/35w amp/preamp	119.99
B-310G	2m FM/SSB 4/100w amp/preamp	219.99
B-320G	2m FM/SSB 50/200w amp/preamp	459.99
B-1018G	2m FM/SSB 10/160w amp/preamp	369.99
B-2518G	2m FM/SSB 25/160w amp/preamp	299.99
B-2530G	2m FM/SSB 25/300w amp/preamp	679.99
B-5018G	2m FM/SSB 50/160w amp/preamp	299.99
B-5030G	2m FM/SSB 50/300w amp/preamp	669.99
BD-35	2m/440 4/45/4/35w HT amp	169.99
B-24G	5/50w 2m HT dock boost amp/pre	109.99
MI-1	Ico 2G/02/2/23 adapter; B24G/BD25	49
MI-3	Ico W21AT/X21AT adapt; B24G/BD25	2.99
MK-1	Ken 25/26/75/77 adapter; B24G/BD25	.19
MK-2	Ken 22/79 adapter; B24G/BD25	2.99
MY-2	Yae 26/415/530 adapt; B24G/BD25	.69
C-1022G	220 FM/SSB 10/220w amp/preamp	699.99
C-2512G	220 FM/SSB 25/120w amp/preamp	309.99
D-15N	430 FM/SSB/ATV 2/15w type N amp	119.99
D-26N	440 FM/SSB 2/60w type N amplifier	179.99
D-1010N	440 FM/SSB 10/100w type N amp	379.99
D-3010N	440 FM/SSB 30/100w type N amp	349.99
D-1010-ATVN	430 ATV 10/52w type N amp	399.99
RC-1*	Remote control head w/18' cable	49.99

\*Not for B-23/C-22/D-26

RC-2 Rem ctl head/cable; B-XX18G 49.99  
The following Repeater Amplifiers are Special Order. Specify SO-239 or type N connectors.

A-1015NR	6m FM 2/110w type N amplifier	\$549.99
A-1015R	6m FM 2/110w SO-239 amplifier	529.99
C-211NR	220 FM .5/80w type N amplifier	619.99
C-211R	220 FM .5/80w SO-239 amplifier	599.99
C-1012NR	220 FM 5/90w type N amplifier	619.99
C-1012R	220 FM 5/90w SO-239 amplifier	599.99
C-2512NR	220 FM 15/90w type N amplifier	589.99
C-2512R	220 FM 15/90w SO-239 amplifier	569.99
D-1010NR	440 FM 4/80w type N amplifier	629.99
D-1010-ATVN-R	430 ATV 4/80w type N amp	629.99
D-3010NR	440 FM 12/80w type N amplifier	599.99

### PREAMPS

KP-1/6M	6m in shack N preamp	\$139.99
KP-1/2M	2m in shack N preamp	139.99
KP-1/440	440 in shack N preamp	139.99
KP-2/6M	6m mast mount N preamp	184.99
KP-2/2M	2m mast mount N preamp	184.99
KP-2/440	440 mast mount N preamp	184.99

### NCG (NCG)

Power Pocket 12v 2AH lead acid batt/cgr \$ 66.99

### NCS (NCS)

NCS-1512	Wall power supply; NCS-3240	8.99
NCS-1514	Wall power supply; NCS-3230	17.99
NCS-LoZNC	Unterminated interface cbl	12.99
NCS-LoZRJ45-I	Icom RJ-45 interface cbl	15.99
NCS-LoZ8PI-K	Kenwood 8-pin interface cbl	17.99
NCS-LoZRJ45-K	Ken RJ-45 interface cbl	15.99
NCS-LoZ8PI-Y	Yaesu 8-pin interface cbl	17.99
NCS-LoZRJ12-Y	Yaesu RJ-12 interface cbl	14.99
NCS-LoZRJ45-Y	Yaesu RJ-45 interface cbl	14.99
NCS-P2PH35-A	Multi-rx/spkr out set 6 cbls	19.99
NCS-MRX2MS-A	3240 & 3230 interface kit	29.99

### NIFTY (NIF)

MM-IC91AD	Mini-manual/ref card combo	\$ 20.99
MM-IC92AD	Mini-manual/ref card combo	22.99
MM-IC2820H	Mini-manual	20.99
MM-IC706MKIIG	Mini-manual	16.99

## Nifty - continued

MM-IC746PRO	Mini-manual	20.99
MM-IC756PRO3I	Mini-manual	20.99
MM-IC7000	Mini-manual	20.99
MM-TMD710A	Mini-manual	22.99
MM-TMV71A	Mini-manual	18.99
MM-TS2000/X	Mini-manual	18.99
MM-FT450/AT	Mini-manual	20.99
MM-FT857D	Mini-manual	16.99
MM-FT897D	Mini-manual	16.99
MM-FT950	Mini-manual	20.99
MM-FT2000/D	Mini-manual	20.99
MM-FT7800R	Mini-manual	16.99
MM-FT8800R	Mini-manual	16.99
MM-FT8900R	Mini-manual	16.99
QR-IC208H	Quick reference card	5.99
QR-IC2200H	Quick reference card	5.99
QR-ICT90A	Quick reference card	5.99
QR-ICV8	Quick reference card	5.99
QR-ICV8000	Quick reference card	5.99
QR-THF6A	Quick reference cards (2)	7.99
QR-TM271A	Quick reference card	5.99
QR-FT60R	Quick reference card	5.99
QR-FT1802M	Quick reference card	5.99
QR-FT2800M	Quick reference card	5.99
QR-VX3R	Quick reference cards (2)	7.99
QR-VX6R	Quick reference card	5.99
QR-VX7R	Quick reference card	5.99
QR-VX170/177	Quick reference card	5.99

## Night Owl Optics (NOO)

NOCA-42 Camera adapter .....Δ \$ 4.99

## NORCOMM (NOR)

NC-101	Tunable CTCSS encoder	\$ 21.99
NC-104	Programmable CTCSS encoder	26.99
NC-106	Prog CTCSS encoder/decoder	67.99
NC-401	Sub-miniature DTMF decoder	76.99

## Oregon Scientific (ORE)

WMR-112A Wireless weather station .....D \$ 79.99

## OUTBACKER (OUT)

OB-8	75-10m 300w PEP 6' 8-band mobile ant	\$299.99
OB-8HP	75-10m 500w PEP 6' 8-band mob ant	329.99
OB-SB	75-10m 300w PEP split ant/storage bag	299.99
OB-8TRI	75-10m 300w PEP 3pc 6' port ant/bag	339.99
Joey	80-2m 20w antenna w/counterpoise	299.99
MicroMount	Tripod system for Joey	49.99
OB-M	75/40/20/17/10m/HF marine 300w PEP 6'	399.99
Perth	75-10m 150w PEP 7.5' mobile ant	329.99
Perth Plus	75-10m+6m/2m 150w PEP 6' mob ant	329.99
Stealth Plus	75-10m+6/2m 100w PEP 4' ant	319.99
Outreach	160-10m 300w PEP 12' antenna	419.99
Outreach 500	80-6m 600w PEP 12' antenna	449.99
Outpost	Base tripod mtg system for mobile ant	275.99
OB-SB	¾-24 spring and ½-24 hole base	129.99
Diamond K-400-3/8C	¾-24 trunk mt, 6' coax	73.99
Diamond C-110	10' ext cable; K-400-3/8C	15.99

## PDK Technologies (PDK)

LiteFlare 3-Pk 3-pack red LiteFlare/carry bag \$ 29.99

## Palomar Engineers (PAL)

PT-340	Tuner-Tuner (use with ant tuner)	99.99
RFI-4	RF interference kit	25.99
VLF-A	VLF converter; 10-500 KHz to 80m	89.99

## PALSTAR (PLS)

AT-1KP	1200w PEP antenna tuner	\$469.99
AT-2K	2000w PEP antenna tuner	529.99
AT-4K	2.5kw T-match edgewound roller ind tuner	895.99
AT-5K	3.5kw T-match ceramic roller ind tuner	1195.99
AT-1500DT	1500w PEP antenna tuner	495.99

## AES Price

## Palstar - continued

## AES Price

AT-AUTO	1500w automatic antenna tuner	1295.99
BT-1500A	1500w PEP antenna tuner	695.99
DL-2K	2000w 30MHz dummy load w/fan	249.99
ZM-30	1-30MHz antenna analyzer	399.99

## PEET BROS. (PBS)

WSF-21000	Ultimeter 2100 weather station	\$299.99
WSF-18000	Ultimeter 800 weather station	199.99
WSF-10100	Pro .01" rain gauge w/40' cbl	89.99
SCF-00400	Kenwood TMD-710A interface cbl	9.99

## PENETROX (PEN)

Penetrox A 4 oz tube for antennas ..... \$ 14.99

## POLYPHASER (PLY)

### LIGHTNING PROTECTION

IS-50NX-C2	125-1000 375/125/50w N flange	\$ 62.99
IS-50UX-C0	1.5-400 2kw/375/125w flange mt	66.99
IS-50UX-C1	50-700MHz 375/125w flange mt	66.99
IS-B50LN-C2	125-1000 375/125/50w N bulkhead	69.99
IS-B50LU-C0	1.5-400 2kw/375/125w bulkhead	69.99
IS-B50LU-C1	50-700 375/125w bulkhead mt	69.99

FB Adapter Flange to bulkhead mt adapter Δ .69

PLDO-120US15A 120v 15A power protector Δ 119.99

PLDO-120US20A 120v 20A power protector . 199.99

IS-RCT 8-wire rotor control protector ..... 129.99

J-1 1½" to 1½" bronze transition clamp ..... 15.99

J-2 1½" to 2¼" bronze transition clamp Δ 2.99

IX-1TW Single phone line protector .....D 49.99

CS112-25 25' 1½" copper strap ..... 49.99

CS112-50 50' 1½" copper strap ..... 89.99

CS112-100 100' 1½" copper strap .....Δ 149.99

CS3-25 25' 3" copper strap ..... 99.99

CS3-50 50' 3" copper strap ..... 129.99

CU-SPGP Copper single point ground panel . 179.99

TK-2 1½" strap to Rohn twr corrosion free clamp 8.99

TK-3 1½" strap-2¼" to ¾" mast corr free clamp Δ .99

1C-112S #6-#1 wire to 1½" strap clamp bond 33.99

58R-112S 1½" strap to ¾" gnd rod clamp bond 32.99

UNI-KIT 2TC Gnd kit; galv twr leg to copper Δ 9.99

UNI-KIT 2CC Ground kit; coax to copper ..... 49.99

CCK Copper cleaning kit; 4 oz can, brush ..... 28.99

LPGS Lightning Protection/Grounding book ..... 20.00

## POWERWERX (POW)

APD-3-PP	Voltage/time controlled power switch	\$ 59.99
BT-Junior	Battery Tender Junior charging sys	29.99
C20-5	5' 15A cig plug to T-male connector	14.99
C2P-5	5' 15A cig plug to Powerpole	14.99
CT-2	Crimp tool for 15/30/75A Powerpole	12.99
P20-5	5' Powerpole to T-male connector	14.99
PPH-10	10ga fuseholder w/45A Powerpoles	14.99
PPH-12	12ga fuseholder w/30A Powerpoles	12.99
PP30-10	10-pair 30A Powerpole connectors	9.99
PP30-25	25-pair 30A Powerpole connectors	19.99
PP45-10	10-pair 45A Powerpole connectors	14.99
PP45-25	25-pair 45A Powerpole connectors	29.99
PP75-08-2	2-pr 75A Powerpole connectors/8 ga	7.99
PSC-10	6' 45A Powerpole to ring terminals	13.99
PS-4	4-terminal 45A Powerpole splitter	17.99
PS-4 Plus	4-terminal 45A "X" Powerpole splitter	17.99
PS-6AA	8-terminal 45A Powerpole tap splitter	34.99
PS-8	8-terminal 45A Powerpole splitter	27.99
RB-12-25	25' 12ga red/black DC pwr zip cord	22.99
RB-14-25	25' 14ga red/black DC pwr zip cord	14.99
RGH-10	10g fuseholder/45A Powerpole/ring	14.99
RGH-12	12g fuseholder/30A Powerpole/ring	12.99
SOC-PP	15A cig socket to Powerpole	14.99
Watt-BLU-PP-C	Watt's Up meter w/Powerpoles	59.99

## PREMIER (PRE)

AL-800 2m/440 34" BNC rubber duck ant .... \$ 29.99



## Premier - continued AES Price

RD-2SMA 2m/440 2" SMA duck .....	D	14.99
RD-8 2m/440/900 6.5" BNC duck .....		14.99
RD-9 2m/440/900 7" BNC duck .....		18.99
RD-78 2m/440/900 15" BNC whip .....		19.99
RD-98 2m/440 17" BNC whip .....	D	24.99
RD-98SMA 2m/440 17" SMA whip .....		27.99
SPM-100 Spkr/mic; ADI/Alinco/Icom/Yaesu ...		32.99
SPM-101 Spkr/mic for Kenwood .....		32.99
SPM-102 Spkr/mic; Yae FT50/60/VX1/3/5/150		32.99
SPM-400A Boom/mic; ADI/Alinco/Icom/Yaesu		41.99
SPM-402A Boom mic; FT50/60/VX1/3/5/150 .		41.99

## PRO AM by VALOR (VAL)

AST-MMK HD 3/8-24 magnet mt kit .....	Δ	\$ 19.99
AST-SO239 SO-239 mounting adapter .....	Δ	6.99
AST-TMK Universal 3/8-24 trunk mount kit Δ		29.99
AST-SO239 SO-239 mounting adapter .....	Δ	6.99

## VHF/UHF ANTENNAS ONLY (No Mounts)

MD144-440 2m/440 antenna only .....	Δ	\$ 19.99
PAQA 136-515 MHz 1/4 wave antenna only ...	D	16.99
PHB-144 2m 3/4 wave 3 db antenna only ....	D	29.99

## MOUNTS ONLY FOR ABOVE ANTENNAS

PAMB Black low profile NMO mag m/coax ..	Δ	\$ 24.99
PAN38 3/4-24 antenna to NMO mt adapter ...	D	16.99
PAS 3/4" NMO mount w/coax .....	Δ	18.99
PASMO 3/4" NMO mt only (no coax) .....	Δ	7.99
PAT-2B Black no hole NMO trunk mt/coax ..	Δ	15.99

## OTHER VHF/UHF ANTENNAS & MOUNTS

100ADN SO-239 horizontal mirror mount ....	D	\$ 7.99
100ADT SO-239 vertical mirror mount .....	D	7.99
101ADN HD alum mirror mt w/SO-239 .....	D	7.99
105ADT Heavy duty 3/4" mount assembly .....	D	3.99
105HDT Heavy duty mount assembly .....	D	3.99
120 Sawtooth hump mt for mobile radios ...	D	10.99
301 4" low profile 3/4-24 magnet mt w/coax D		16.99
401 5" low profile 3/4-24 magnet mt w/coax D		19.99
407-18 18' RG59 harness PL259-PL259 .....	Δ	4.99
MM-3401 Maxi-mag mt 3/4"NMO (3-5" mags) Δ		59.99
SS-100MOT 3-way NMO mirror mt w/coax ..	Δ	19.99
TGMKD On glass replacement mtg kit .....	Δ	4.99
HWTGSBNC 112-1.2GHz on-glass scanner ant/BNC Δ		29.99
MM-270B 2m/440 micro mag mt anw/BNC Δ		19.99
PM3B Micro mag mt monitor ant w/BNC D		19.99

## MOBILE HF ANTENNAS (No Mounts)

PHF-SB 75/40/20/15/10m whips .....	Δ	\$ 79.99
PHF-75B 75m 8' 3/4-24 whip (4' coil, 4' whip) Δ		24.99
PHF-40B 40m 8' 3/4-24 whip (4' coil, 4' whip) Δ		24.99
PHF-30B 30m 8' 3/4-24 whip (4' coil, 4' whip) D		24.99
PHF-20B 20m 8' 3/4-24 whip (4' coil, 4' whip) Δ		24.99
PHF-17B 17m 8' 3/4-24 whip (4' coil, 4' whip) D		24.99
PHF-15B 15m 8' 3/4-24 whip (4' coil, 4' whip) D		24.99
PHF-12B 12m 8' 3/4-24 whip (4' coil, 4' whip) D		24.99
PHF-10B 10m 8' 3/4-24 whip (4' coil, 4' whip) Δ		24.99
PHF-6B 6m 58" 3/4-24 whip .....	Δ	20.99
AST-GPK 3/8-24 mtg/gnd plane kit .....	D	9.99

## QRZ (WAL)

Ham QRZ US & international calls plus programs		\$ 24.99
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## QSL Card Holders (ART)

QSL Card Holders, pack of 3, 20 cards/holder		\$ 18.99
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## RCA (RCA)

ACAC-5960 TV coax hex crimp tool .....	Δ	\$ 4.99
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## RF PARTS (See Diamond)

## RT SYSTEMS (RTS)

RTS-03 USB to serial adapter .....		\$ 22.99
WCS-91 Prog software w/cable; IC-91A/AD ..		49.99
WCS-208 Prog software w/cable; IC-208H ....		49.99

## RT Systems - continued AES Price

WCS-2200 Prog software w/cable; IC-2200H		49.99
WCS-2820 Prog software w/cable; IC-2820H		49.99
WCS-7000 Prog software w/cable; IC-7000 ..		49.99
WCS-T90 Prog software w/cable; IC-T90A ....		49.99
WCS-V8000 Prog software w/cable; IC-V8000		49.99

## RADIOWAVZ (RAD)

160MC/BALUN 150' 160m dipole w/1:1 balun		\$ 79.99
80MC/BALUN 130' 80m dipole w/1:1 balun ..		59.99
40MC/BALUN 66' 40m dipole w/1:1 balun ....		47.99
30MC/BALUN 46' 30m dipole w/1:1 balun ....		47.99
20MC/BALUN 32' 20m dipole w/1:1 balun ....		39.99
17MC/BALUN 26' 17m dipole w/1:1 balun ....		37.99
15MC/BALUN 22' 15m dipole w/1:1 balun ....		37.99
12MC/BALUN 19' 12m dipole w/1:1 balun ....		37.99
10MC/BALUN 17' 10m dipole w/1:1 balun ....		37.99
160M-DBZ 265' 160m double bazooka ant ...		129.99
75M-DBZ 127' 75m double bazooka ant .....		79.99
40M-DBZ 70' 40m double bazooka ant .....		59.99
DX-160 246' 160m windom antenna .....		132.99
DX-80 136' 80m windom antenna .....		79.99
DX-40 67' 40m windom antenna .....		59.99
B-11A 1:1 160-6m voltage balun .....		21.99
B-11ISO 1:1 160-6m isolation balun .....		29.99
B-14VA 4:1 160-10m voltage balun .....		25.99
B-19TX 9:1 160-10m isolation balun .....		29.99
DPH Dipole head w/eye hook .....		9.99

EFT-110 2.8-30 MHz 110' end fed inverted V		279.99
FTD-20 7-30 MHz 20' folded dipole .....		250.99
FTD-45 5-30 MHz 45' folded dipole .....		279.99
FTD-65 3-30 MHz 65' folded dipole .....		279.99
FTD-90 1.8-30 MHz 90' folded dipole .....		289.99
FT-DMK Mtg kit; folder dipole w/3 pole installation		45.99
G5RV 102' G5RV antenna, 32' tall .....		39.99
G5RV JR 51' G5RV antenna, 14' tall .....		28.99
G5RV LITE 68' G5RV antenna, 32' tall .....		48.99
G5RV MAX 204' G5RV antenna, 56' tall .....		75.99
J8X-U1 1.5' RG-8X coax/silver teflon PL259s		9.99
J8X-U3 3' RG-8X coax/silver teflon PL259s ...		11.99
J8X-U6 6' RG-8X coax/silver teflon PL259s ...		14.99
J8X-U12 12' RG-8X coax/silver teflon PL259s		22.99
J8X-U25 25' RG-8X coax/silver teflon PL259s		29.99
J8X-U50 50' RG-8X coax/silver teflon PL259s		37.99
J8X-U75 75' RG-8X coax/silver teflon PL259s		49.99
J8X-U1X 100' RG-8X coax/silver teflon PL259s		63.99

J213-U1 1.5' RG-213 coax/silver teflon PL259s		14.99
J213-U3 3' RG-213 coax/silver teflon PL259s		16.99
J213-U6 6' RG-213 coax/silver teflon PL259s		17.99
J213-U12 12' RG-213 coax/silver teflon PL259s		24.99
J213-U25 25' RG-213 coax/silver teflon PL259s		34.99
J213-U50 50' RG-213 coax/silver teflon PL259s		55.99
J213-U75 75' RG-213 coax/silver teflon PL259s		73.99
J213-U1X 100' RG-213 coax/silver teflon PL259s		94.99
J213-U12X 125' RG-213 coax/silver teflon PL259s		114.99
J213-U15X 150' RG-213 coax/silver teflon PL259s		136.99

TL308-100 100 ft 18ga 300 ohm twinlead ...		24.99
TL458-100 100 ft 18ga 450 ohm ladderline ..		24.99
TL454-100 100 ft 14ga 450 ohm ladderline ..		54.99

WCCS147-100 Stranded antenna wire, 100 ft.		14.99
WCCS147-250 Stranded antenna wire, 250 ft.		35.99

## SGC (SGC)

52-96 SG-500 1.8-24MHz 12v 500w PEP amp		1349.99
51-82 Fan kit; continuous duty xmit SG500		220.99
54-14 SG-230 200w 1.8-30 MHz 12v Smartuner		499.99
54-15 SG-235 500w 1.8-30MHz 12v Smartuner		1099.99
54-18 SG-237 100w PEP HF+6m mini Smartuner ...		299.99
54-22 SG-239 200w Smartuner .....		195.99
54-63 SmartLock; SG230/237/239 after 9/1/93		60.99
54-25 MAC-200 Smartuner/ant switch combo		265.99
55-28 SG-307 1.8-60 7' mobile whip & mt D		390.99

## SGC - continued AES Price

70-14 ADSP2 DSP noise reduction speaker ..		160.99
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## SAMLEX (SAM)

FCP-1000 1A ps w/cigarette lighter socket .....		\$ 7.99
SEC-1223 23A switching power supply w/fan		99.99
SEC-1235 30A switching ps w/fan, 35A surge		119.99
SEC-1235M 30A switch ps/fan/meters, 35A surge		139.99
SI-175HP 175w 12vdc-115vac inverter .....		29.99
SI-400HP 400w 12vdc-115vac inverter .....		49.99
SPS-1204UL 3.5A switching ps+cg socket ..		29.99

## SANGEAN (SAN)

ATS-404 AM/FM/SW portable receiver w/case ...		\$ 79.99
ATS-505P AM/FM/SW portable receiver .....		129.99
ATS-606AP AM/FM/shortwave portable receiver		139.99
ATS-909 AM/FM/shortwave portable Rcvr .....		249.99
DT-200VX AM/FM/VHF TV sound portable Rcvr Δ		64.99
HDR-1 AM/FM/HD table-top radio .....		199.99
HDT-1 HD radio component tuner .....		199.99
PR-D2 AM/FM portable dark grain "Q" radio Δ		49.99
PT-50 AM/FM/SW portable receiver .....	Δ	24.99
PT-80 Deluxe AM/FM/SW portable receiver Δ		129.99
RCR-2 AM/FM atomic clock radio .....		69.99
WFR-20 Wi-Fi internet radio & media player		279.99
WR-1 AM/FM wooden cabinet receiver .....		99.99
ANT-60 Portable wind-up SWL antenna .....		13.99

## SEQUIA (SEQ)

POCKET PC REF Pocket PC reference book ...		\$ 15.99
POCKET REF Pocket reference book .....		12.99
WinRef 98-95 Windows pocket reference book Δ		.99

## SHAKESPEARE (SHA)

396-1 3db 5' VHF marine ant, less mount ....		\$ 69.99
5101 6db 8' VHF marine ant, less mount ...Δ		49.99
5202 6db 8' VHF mar ant/chrome ferrule, less mt		109.99
5206-C Econo 8' VHF mar ant/chrome ferrule, no mt		59.99
495 White plastic lift & lay mount .....	D	.99
4187 Stainless steel ratchet mount .....		39.99
5215 3db 36" sailboat VHF marine ant w/mt		49.99
420 3db 5' VHF marine ant w/fold-down mt ..		69.99
PL-259-CP-G Solderless PL-259; RG-8X/58 ..		7.99
PL-258-CP-G Solderless splice; RG-8X/58 ....		11.99

## Smiley Antenna (SMI)

270A 2m/220/440 gain telescopic whip .....		\$ 19.99
270A/SMA 2m/220/440 gain tele whip w/SMA		19.99
5/8 SLD-2 2m 3/4" Slim Duck rubber ant .....		19.99
5/8 SLD-2/SMA 2m 3/4" Slim Duck rubber ant/SMA		19.99
5/8 SLD-220 220 3/4" Slim Duck rubber ant ....		19.99
5/8 SLD-440 440 3/4" Slim Duck rubber ant ....		19.99
5/8 SLD-2 Combo 2m 3/4" duck & stubby ant ..		29.99
5/8 SLD-220 Combo 220 3/4" duck & stubby ant		29.99
5/8 SLD-440 Combo 440 3/4" duck & stubby ant		29.99

FLX 1/2 WAV-2M 1/2 wv 2m BNC whip/flex coil		25.99
RD-2 2m rubber duck antenna .....		15.99
RD-220 220 rubber duck antenna .....		15.99
RDMO-2 2m mini rubber duck antenna .....		15.99
RDMO-440 440 mini rubber duck antenna ....		15.99
RDS-2 2m stubby rubber duck antenna .....		15.99
RDS-220 220 stubby rubber duck antenna ...		15.99
RDS-440 440 stubby rubber duck antenna ...		15.99

SD-2 2m Slim Duck thin rubber antenna .....		15.99
SD-220 220 Slim Duck thin rubber antenna .		15.99
SL-440 440 slimline type duck .....		15.99
SS-II Super Stick 2m 3/4" wv telescopic ant ....		19.99
SS-III Super Stick 220 3/4" wv telescopic ant ..		19.99
SS-IV Super Stick 440 3/4" wv telescopic ant ...		19.99
SS-II/Combo 2m 3/4" wv telescopic & stubby ant		29.99
SS-III/Combo 220 3/4" wv telescopic & stubby ant		29.99
SS-IV/Combo 440 3/4" wv telescopic & stubby ant		29.99
TAQ-2 2m 3/4" wave stainless whip .....		10.99



## Smiley - continued AES Price

TAQ-220	220 1/4 wave stainless whip .....	10.99
TAQ-440	440 1/4 wave stainless whip .....	10.99
TS	Thin Stick 2m/220 1/2 wave telescopic whip .....	16.99

## SOLARCON (SOL)

A-99	10m/CB 17' 8" fiberglass base ant .....	\$ 79.99
GP-K1	Ground plane radial kit .....	59.99

## SONY SHORTWAVE (SON)

ICF-SW11	AM/FM/SW compact receiver .....	\$ 49.99
ICF-SW12	AM/FM/SW travel Rcvr/world clock .....	69.99
ICF-SW35	AM/FM/SW portable receiver .....	69.99
ICF-SW7600GR	AM/FM/SW portable receiver .....	159.99

## STICKY PAD (STI)

13810	7 1/4" x 4 3/4" sticky pad for handhelds, etc .....	\$ 5.99
13820	8 1/4" x 6 1/2" sticky pad for larger items .....	9.99

## Synthetic Textiles (SYN)

100'	3/8" black double braided rope .....	\$ 9.99
100'	3/16" 3/8" black double braided rope .....	18.99
100'	5/16" 3/8" black double braided rope .....	26.99
350'	3/8" black double braided rope .....	49.99

## TalkSafe (TAL)

TS-062-801	TalkSafe main unit for mobiles ..	\$182.99
TS-062-813	Mic cable; Ali/Ico modular RJ-45 .....	16.99
TS-062-814	Mic cable; Yae modular RJ-12 .....	16.99
TS-062-815	Mic cable; Ken/Yae modular RJ-45 .....	16.99
TS-062-818	Mic cable; Ali/Ken 8-pin round .....	16.99
TS-062-819	Mic cable; Ico/Yae 8-pin round .....	16.99
TS-062-802	TalkSafe main unit; HT's/FT-817 .....	182.99
TS-062-835	Mic cable for Yaesu FT-817 ....	16.99
TS-062-836	Mic cable for Yaesu threaded ..	16.99
TS-062-837	Mic cable for Kenwood .....	16.99
TS-062-838	Mic cable; Yaesu single pin .....	16.99
TS-062-842	Mic cbl; 2-pin Alinco/Icom/Yaesu ..	16.99

## Terk Technologies (TER)

dVantage	Indoor passive fine-tunable AM ant ..	\$ 49.99
HDTV-I	Indoor UHF/VHF HDTV antenna .....	49.99
LF-30S	2.4GHz wireless vid/aud sys/rem features ..	99.99
LF-IRX	Remote control extender .....	39.99
MD-41	4-input video switch/converter .....	29.99
PI-B	Indoor AM/amplified FM loop antenna ..	49.99
Tower	Indoor AM/amplified FM tower antenna ..	27.99
TV-55	Indoor/outdoor TV antenna .....	99.99
VR-1	TV volume regulator .....	39.99
VS4-MOD	4-input remote video switch/converter ..	14.99

## Times Microwave (TMS)

LMR-400	Standard 3/8" coax cable .....	per ft. \$ .93
LMR-400	.....500 ft. Roll .....	359.99
LMR-400-DB	Watertight 3/8" coax cable per ft. ....	1.05
LMR-400-DB	.....500 ft. Roll .....	409.99
LMR-400-UF	UltraFlex 3/8" coax cable .....	per ft. 1.40
LMR-400-UF	.....500 ft. Roll .....	549.99

## TIMWAVE (TIM)

ANC-4	RF noise canceller .....	\$209.99
AC-1	12vdc 600 ma adapter .....	15.99
AC-5	12vdc 1.7A desktop ps .....	22.99
DSP-599zx	All-mode DSP noise filter .....	436.99
AC-5	12vdc 1.7A desktop ps .....	22.99
HLBT-BTH	HamLink Bluetooth wireless system ..	299.99
PK-96/100K	9600 baud controller/128K RAM .....	219.99
(CSS) ROC Digital Desktop, AEA/Tim	Soft PK-12/96/232 .....	99.99
AC-1	12vdc 600 ma adapter .....	15.99
AC-5	12vdc 1.7A desktop ps .....	22.99
PK-232/PSK	Multimode controller w/sound card ..	531.99
PK-232/USB	Multimode controller/sound card/USB ..	549.99
(CSS) ROC Digital Desktop, AEA/Tim	Soft PK-12/96/232 .....	99.99
AC-5	12vdc 1.7A desktop ps .....	22.99
TZ-900N	.2-55MHz type N antenna analyzer ..	899.99

## Timewave - continued AES Price

TZ-900S	.2-55MHz S0239 antenna analyzer ..	899.99
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## TRIPP LITE (TRI)

ISOBAR-8 ULTRA	8 outlet surge suppress/LEDs .....	\$ 79.99
SUPER-7	7 outlet surge suppressor .....	19.99
SUPER-7+TEL	7 outlet/fax modem surge .....	29.99

## TUBES (TUB)

6146B	Tube .....	\$ 29.99
12BY7A	Tube .....	34.99
3-500ZG-RFP	High dissipation tube (3-500Z) .....	199.99
572B	Tube .....	59.99
811A	Tube .....	19.99

## US TOWER (UST)

### FREE STANDING CRANK-UPS (not for T2X)

TX-438	38' crank-up tower .....	T 1849.99
TX-455	55' crank-up tower .....	T 2549.99
TX-472	72' crank-up tower .....	T 4179.99
TX-472MDP	72' crank-up w/motor drive .....	T 6719.99
TX-489MDPL	89' crank-up w/motor drive .....	T 10899.99

### FREE STANDING HD CRANK-UP TOWERS

HDX-538	38' crank-up tower .....	T 2199.99
HDX-555	55' crank-up tower .....	T 3829.99
HDX-572MDPL	72' crank-up w/motor drive ..	T 9999.99
HDX-589MDPL	89' crank-up w/motor drive ..	T 13069.99
HDX-689MDPL	89' HD crank-up w/motor .....	T 25249.99
HDX-5106MDPL	106' HD crank-up w/motor ..	T 27469.99

### COMPACT TMM (Top mt rotor for full retraction)

TMM-433SS	33' crank-up tower .....	T 1979.99
TMM-433HD	33' HD crank-up tower .....	T 2379.99
TMM-541SS	41' crank-up tower .....	T 2579.99

### ACCESSORIES FOR CRANK-UP TOWERS

CX-2	Coax arms (2) for 2-section tower .....	\$ 90.99
CX-3	Coax arms (3) for 3-section tower .....	124.99
CX-4	Coax arms (4) for 4-section tower .....	196.99
CX-5	Coax arms (5) for 5-section tower .....	268.99
CX-6	Coax arms (6) for 6-section tower .....	340.99
IV-16	Inverted vee arm for MA's .....	67.99

M-5	2" OD 5' mast extension for MA's .....	67.99
M-10	2" OD 10' mast .....	T 125.99
M-15	2" OD 15' mast .....	T 185.99
M-15R	2" OD 15' reinforced mast .....	T 279.99
M-20	2" OD 20' mast .....	T 244.99
M-20R	2" OD 20' reinforced mast .....	T 366.99
CM-20	2" OD 20' cromolly mast .....	T CALL
HDP	Service platform .....	T 1819.99
MD-75	Heavy duty 1 HP motor drive .....	T 1479.99
MDP-750*	Pull-down drive; TX-472/HDX-555 ..	T 2299.99
MDPL-1000*	Pull-down drive; HDX-572 .....	T 3119.99
*Requires MCL-100 or RMC-1000. MDP-750 and MDPL-1000 not sold separately		

MRF	Mast raising fixture .....	476.99
MCL-100	Limit switch package .....	749.99
RMC-1000	Remote control w/limit switch .....	1479.99
TRX-80	Raising fixture; TX-438/455; HDX-538/555 ..	T 679.99
TRX-80HD	Raising fixture; TX-472/489; HDX-572/589 ..	T 899.99
TRX-100HD	Raising fixture; HDX-689/5106 ..	T 1199.99
TB-2US	Thrust bearing; 2" mast w/2 flange holes ..	177.99

### MA-SERIES TUBULAR TOWERS

MA-40	40' crank-up tubular tower .....	T 1469.99
MA-550	55' crank-up tubular tower .....	T 2269.99
MA-550MDP	55' crank-up tubular w/motor ..	T 4329.99
MA-770*	70' crank-up tubular tower .....	T 3729.99
MA-770MDP*	70' crank up tubular w/motor ..	T 5919.99
MA-850*	85' crank-up tubular tower .....	T 5779.99
MA-850MDP*	85' crank-up tubular w/motor ..	T 7949.99
*Requires MAB or MARB-series base		

### MA-SERIES ACCESSORIES

CX-2M	Coax arms (2) for MA-40 .....	\$ 95.99
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## US Tower - continued AES Price

CX-3M	Coax arms (3) for MA-550 .....	141.99
CX-4M	Coax arms (4) for MA-770 .....	237.99
CX-5M	Coax arms (5) for MA-850 .....	284.99
MAB-40	Hinged base for MA-40 .....	T 569.99
MAB-550	Hinged base for MA-550 .....	T 669.99
MAB-770	Hinged base for MA-770 .....	T 799.99
MAB-850	Hinged base for MA-850 .....	T 1049.99
MAF-40	Raising fixture for MA-40 .....	394.99
MAF-550	Raising fixture for MA-550 .....	T 499.99
MAF-770	Raising fixture for MA-770 .....	T 599.99
MAF-850	Raising fixture for MA-850 .....	T 729.99
MARB-40	Rotor base accessory for MA-40 ..	T 869.99
MARB-550	Rotor base accessory for MA-550 ..	T 979.99
MARB-770	Rotor base accessory for MA-770 ..	T 1169.99
MARB-850	Rotor base accessory for MA-850 ..	T 1379.99

All US TOWER products are drop-shipped (shipped direct to you from the US TOWER factory). On these factory drop-shippments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Woodlake, California or Lincoln, Kansas via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. You can obtain shipping charges from any AES salesperson by phone or email. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

## UNADILLA (See W2AU)

## UNIDEN (UNI)

PC-68 Elite	AM Mobile CB w/WX alert .....	*\$ 59.99
*Price after mail-in rebate; rebate guaranteed thru 12/31/08		
PC-68LTW	AM Mobile CB w/WX alert .....	*49.99
*Price after mail-in rebate; rebate guaranteed thru 12/31/08		
PC-68XL	AM Mobile CB .....	*44.99
*Price after mail-in rebate; rebate guaranteed thru 12/31/08		
PC-78 Elite	AM Mobile CB w/WX alert .....	*79.99
*Price after mail-in rebate; rebate guaranteed thru 12/31/08		
PC-78LTW	AM Mobile CB w/WX alert .....	*69.99
*Price after mail-in rebate; rebate guaranteed thru 12/31/08		
PC-78XL	AM Mobile CB .....	*64.99
*Price after mail-in rebate; rebate guaranteed thru 12/31/08		
PRO-510XL	AM Mobile CB .....	39.99
PRO-520XL	AM Mobile CB .....	54.99
PRO-538W	AM Mobile CB w/WX .....	59.99

### UNIDEN BEARCAT

BC-340CRS	100 ch scanner w/SAME WX .....	\$ 99.99
BC-350C	100 ch prog/service search w/AC ps ..	99.99
BC-370CRS	300 ch scanner/800/SAME WX ..	139.99
BC-898T	500 ch prog scanner/trunking/preprog ..	209.99
BCD-996T	6000 ch prog/trunk/SAME WX/dig ..	519.99
BC-RH96	Remote head for BCD-996T .....	149.99
BCT-8	Preprog warning scan/800/trunk/AC ps ..	179.99
BCT-15	2500 ch prog scanner/800/trunk ..	239.99
BC-RH96	Remote head for BCT-15 .....	149.99
BC-72XLT	100 ch pocket scanner .....	99.99
BC-95XLT	200 ch prog pocket scanner/800 ..	119.99
AD-70	Extra charger .....	10.99
BBTY0356001	Extra battery for BC-296D .....	7.99
BP-120	Extra battery; SC180B/SC200 .....	18.99
BP-180	Extra battery for BC-245XLT .....	16.99
BP-200	Extra battery for BC-200XLT .....	26.99
BP-205	Extra battery for BC-100XLT .....	26.99
NC-250D	Carrying case for BC-250D/296D ..	2.99
UA-502	Cig power cord .....	6.99
SC-230	1600+ch pocket/800/SAME WX .....	199.99
BC-246T	1600+ ch pocket scanner/trunking ..	219.99
BADG0687001	DC cord .....	22.99



## Uniden - continued AES Price

NC-246T Carrying case .....	19.99
BCD-396T 3000+ch pocket/trunk/SAME/dig ..	519.99
BAD60687001 DC cord .....	22.99
BC-RH96 Remote head .....	149.99

### MARINE

Atlantis-250 5w VHF marine handheld .....	\$ 99.99
MHS-350 Waterproof 5w VHF marine handheld Δ	119.99
Voyager 5w VHF marine handheld/lith ion batt	169.99
Oceanus-DSC 25w 90 ch VHF marine Xcvr/DSC	139.99
Polaris 25w VHF marine Xcvr w/hailer .....	79.99
Solara-DSC 25w 90 ch VHF marine Xcvr/DSC	99.99
UM-525 25w VHF marine Xcvr w/hailer .....	149.99
UM-625C 25w VHF mar Xcvr/color TFT/hailer Δ	219.99

## Unified Microsystems (UNM)

VK-64 CW/voice keyer .....	\$229.99
KC-4 CW cable for VK-64 to transceiver ....	9.99
VKC-8 8-pin audio cable for VK-64 to Xcvr	24.99
XT-4 Small size CW memory keyer .....	69.99
KC-4 CW cable for XT-4 to transceiver .....	9.99
W9XT Contest card for IBM PC & compatible Δ	69.99
CCC-8 8pin mic contest card cable semi-kit Δ	19.99

## Universal Towers (UNT)

4-30 4 sq ft wind load 30' alum tower .....	T \$373.99
9-30 9 sq ft wind load 30' alum tower .....	T 501.99
12-30 12 sq ft wind load 30' alum tower .....	T 660.99
21-30 21 sq ft wind load 30' alum tower .....	T 785.99
23-30 23 sq ft wind load 30' alum tower .....	T 1038.99
35-30 35 sq ft wind load 30' alum tower .....	T 1170.99
4-40 4 sq ft wind load 40' alum tower .....	T 626.99
7-40 7 sq ft wind load 40' alum tower .....	T 786.99
9-40 9 sq ft wind load 40' alum tower .....	T 876.99
12-40 12 sq ft wind load 40' alum tower .....	T 1038.99
15-40 15 sq ft wind load 40' alum tower .....	T 1161.99
21-40 21 sq ft wind load 40' alum tower .....	T 1263.99
23-40 23 sq ft wind load 40' alum tower .....	T 1518.99
4-50 4 sq ft wind load 50' alum tower .....	T 882.99
5-50 5 sq ft wind load 50' alum tower .....	T 1003.99
7-50 7 sq ft wind load 50' alum tower .....	T 1128.99
9-50 9 sq ft wind load 50' alum tower .....	T 1255.99
15-50 15 sq ft wind load 50' alum tower .....	T 1640.99
16-50 16 sq ft wind load 50' alum tower .....	T 1747.99
4-60 4 sq ft wind load 60' alum tower .....	T 1256.99
6-60 6 sq ft wind load 60' alum tower .....	T 1540.99
7-60 7 sq ft wind load 60' alum tower .....	T 1613.99
9-60 9 sq ft wind load 60' alum tower .....	T 1732.99
3-70 3 sq ft wind load 70' alum tower .....	T 1638.99
4-70 4 sq ft wind load 70' alum tower .....	T 1960.99
6-70 6 sq ft wind load 70' alum tower .....	T 2023.99
7-70 7 sq ft wind load 70' alum tower .....	T 2088.99
3-80 3 sq ft wind load 80' alum tower .....	T 2182.99
4-80 4 sq ft wind load 80' alum tower .....	T 2504.99
2-90 2 sq ft wind load 90' alum tower .....	T 2596.99
B-14 Base for tower .....	81.99
B-18 Base for tower .....	81.99
B-22 Base for tower .....	124.99
B-26 Base for tower .....	156.99
Extra 14" stubs (between base & tower) .set	16.99
Extra 18" stubs (between base & tower) .set	28.99
Extra 22" stubs (between base & tower) .set	46.99
Extra 26" stubs (between base & tower) .set	46.99
RFM-11 Flat roof mt for guyed tower .....	53.99
RFM-14 Flat roof mt for guyed tower .....	53.99
RFM-18 Flat roof mt for guyed tower .....	84.99
RFM-22 Flat roof mt for guyed tower .....	113.99
RFM-26 Flat roof mt for guyed tower .....	151.99
R-11 Rotor mount .....	37.99
R-14 Rotor mount .....	57.99
R-18 Rotor mount .....	75.99

## Universal - continued AES Price

### SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

11 Top 11" top tower section .....	T 126.99
14 Top 14" top tower section .....	T 159.99
18 Top 18" top tower section .....	T 288.99
14 Taper 14" taper tower section .....	T 140.99
18 Taper 18" taper tower section .....	T 252.99
22 Taper 22" taper tower section .....	T 375.99
26 Taper 26" taper tower section .....	T 536.99
11 Straight 11" straight tower section .....	T 124.99
14 Straight 14" straight tower section .....	T 140.99
18 Straight 18" straight tower section .....	T 252.99
22 Straight 22" straight tower section .....	T 375.99
26 Straight 26" straight tower section .....	T 536.99
HD35-40 35 sq ft wind load 40' alum tower T	1746.99
HD21-50 21 sq ft wind load 50' alum tower T	1866.99
HD9-60 9 sq ft wind load 60' alum tower ..	T 1961.99
HD16-60 16 sq ft wind load 60' alum tower T	2345.99
HD21-60 21 sq ft wind load 60' alum tower T	2473.99
HD8-70 8 sq ft wind load 70' alum tower ..	T 2213.99
HD12-70 12 sq ft wind load 70' alum tower T	2723.99
HD17-70 17 sq ft wind load 70' alum tower T	2952.99
HD21-70 21 sq ft wind load 70' alum tower T	3078.99
HD8-80 8 sq ft wind load 80' alum tower ..	T 2820.99
HD9-80 9 sq ft wind load 80' alum tower ..	T 2942.99
HD11-80 11 sq ft wind load 80' alum tower T	3327.99
HD12-80 12 sq ft wind load 80' alum tower T	3330.99
HD16-80 16 sq ft wind load 80' alum tower T	3555.99
HD4-90 4 sq ft wind load 90' alum tower ..	T 2940.99
HD8-90 8 sq ft wind load 90' alum tower ..	T 3454.99
HD11-90 11 sq ft wind load 90' alum tower T	3935.99
HD4-100 4 sq ft wind load 100' alum tower T	3903.99
HD8-100 8 sq ft wind load 100' alum tower T	4186.99
B-30 Base for HD tower .....	231.99
Extra 30" stubs (between base & tower) .set	67.99
RFM-30 Flat roof mt for guyed tower .....	211.99
30 Taper 30" taper tower section .....	T 604.99
30 Straight 30" straight tower section .....	T 604.99

### SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

1-5/8SC Flange bearing .....	102.99
2-3/16SC Flange bearing .....	114.99
Top Plate Flange plate welded to top section	27.99
1-1/4" OD x 5 ft aluminum mast .....	T 24.99
1-1/4" OD x 10 ft aluminum mast .....	T 38.99
1-1/2" OD x 10 ft aluminum mast .....	T 47.99
2" OD x 8 ft aluminum mast .....	T 57.99
2" OD x 16 ft aluminum mast .....	T 105.99

All UNIVERSAL TOWERS products are drop-shipped (shipped direct to you from the UNIVERSAL TOWERS factory). On these factory drop-shippings we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Mt. Clemens, Michigan via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. You can obtain shipping charges from any AES salesperson by phone or email. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

## VALOR (See PRO AM)

## VANCO (VCO)

370052 3½ digit multimeter .....	Δ \$ 19.99
CL-3 Extra heavy duty alligator clip leads (10)	9.99
HF-24RS Scanner headphones w/dual volume	19.99
SWR-1 SWR/field strength meter .....	29.99

## Vanco - continued AES Price

SWR-3 Mini SWR meter .....	19.99
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## VAN GORDEN (VAN)

D-15 15m 22' wire dipole antenna .....	Δ \$ 29.99
PD-4020 40/20/15m 66' parallel dipole .....	Δ 39.99
SD-40 Short 45' 40m wire dipole antenna Δ	29.99

## VECTRONICS (VEC)

DL-300M 300w 150MHz dummy load .....	\$ 49.99
DL-650M 1.5kw 650MHz dummy load .....	79.99
DL-2500 2.5kw 150MHz dummy load .....	199.99
HFT-1500 1.5kw antenna tuner .....	439.99
HPF-1 High pass filter, 75 or 300 ohms .....	24.99
HPF-2 Deluxe high pass filter, 75 or 300 ohms	34.99
LP-30 1.5kw low pass filter .....	89.99
LP-2500 2.5kw low pass filter .....	129.99
PM-30HF 300/3kw HF/6m wattmeter .....	89.99
PM-30UV 30/300w 2m/220/440 wattmeter ..	99.99
VC-300DLP 300w antenna tuner .....	169.99
VC-300M 300w mobile antenna tuner .....	129.99
121K Crystal radio set kit .....	19.99
131K Aircraft receiver kit .....	29.99
201K CW keyer kit .....	24.99
422K FM broadcast SCA decoder kit .....	27.99
830K Super SSB audio filter kit .....	19.99
841K Tunable SSB/CW audio filter kit .....	34.99
1140K 40m receiver kit .....	29.99
1240K 40m QRP CW transmitter kit .....	29.99
1290K AM radio transmitter kit .....	29.99

## VELLEMAN (VEL)

AVM-2050 Analog sound level meter .....	\$ 29.99
AVW-089 3 channel audio/video switcher .....	8.99
DVM-810 3½ digit digital multimeter .....	9.99
DVM-850BL Deluxe 3½ digit DMM w/holder ...	19.99
EL-301 30 in 1 electronic lab kit .....	39.99
EL-1301 130 in 1 electronic lab kit .....	89.99
EL-3001 300 in 1 electronic lab kit .....	129.99
K/TF 75-piece cable ties .....	2.99
SOLD-250GLF .55 lb lead-free solder, .04 dia	19.99
TLM-2 Test lead set w/banana plugs .....	2.99
TLM-10 Test probe set .....	4.99
VT-BT6 33-piece screwdriver bit set .....	6.99
VT-COAX Coax stripper; RG-58/59/62/6 .....	14.99
VT-D2 Heavy duty desoldering pump .....	3.99
VT-LAMP2BNU Hobby magnifier lamp w/table mt	49.99
VT-M468L Crimp tool for RJ-11/12/45 .....	9.99
VT-SET 5-piece pliers .....	9.99
VT-SET3N 6-pc electronics screwdriver set ...	9.99
VT-SET21N 8-in-1 screwdriver set .....	4.99
VT-TS 25-piece hobbyist tool set .....	9.99

## VIBROPLEX (VIB)

100 Original Presentation Super deluxe bug	\$269.99
105 Original Deluxe Bug .....	209.99
110 Original Standard Bug .....	179.99
113 VibroKeyer Gold Paddle .....	279.99
115 VibroKeyer Deluxe Paddle .....	199.99
120 VibroKeyer Standard Paddle .....	159.99
123 Iambic Gold Paddle .....	279.99
125 Iambic Presentation Paddle .....	269.99
130 Iambic Deluxe Paddle .....	199.99
135 Iambic Standard Paddle .....	159.99
145 Triangular Brass Racer Iambic paddle .	149.99
150 Square Brass Racer Iambic paddle .....	149.99
153 Gold straight key .....	Δ 249.99
155 Standard straight key .....	159.99
160 Deluxe straight key .....	199.99
165 Deluxe Hand key/Iambic Paddle double .	349.99
170 Dlx Hand key/VibroKeyer Paddle double Δ	299.99
175 Standard Hand key/Iambic Paddle double Δ	249.99
180 Std Hand key/VibroKeyer Paddle double Δ	249.99
185 Square Racer Deluxe Iambic paddle Δ	129.99



## Vibroplex - continued AES Price

190 Square Racer Standard Iambic paddle	129.99
195 Blue Racer 2000 Std Millennium Bug	199.99
200 Code Warrior Junior Paddle	109.99
CP-3 Cord & plug for Iambic & Vibrokeyer	9.99

## WA1FFL (WA1)

Ladder-Loc 450 ohm ladderline center attach	\$ 12.99
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## W2AU (Unadilla) (W2A)

W2AU 1:1 160-10m balun, lightning arrestor	\$ 26.99
W2AU 4:1 160-10m balun, lightning arrestor	26.99
W2AU Beam Balun, 1:1 HF balun	27.99
W2DU-HF 1:1 1.8-30 MHz choke balun	28.99
W2DU-VHF 1:1 30-250 MHz choke balun	28.99
W2DU Beam Balun 40-10m 1:1 HF choke balun	29.99
HA AN-sulator center insulator	11.99
HE END-sulator end insulators	pair 6.99
KW-80CW Reyco 80m CW ant traps	pair 52.99
KW-80F Reyco 75m phone ant traps	pair 52.99
KW-60 Reyco 60m antenna traps	pair 49.99
KW-40 Reyco 40m antenna traps	pair 47.99
KW-30 Reyco 30m antenna traps	pair 47.99
KW-20 Reyco 20m antenna traps	pair 46.99
KW-17 Reyco 17m antenna traps	pair 46.99
KW-15 Reyco 15m antenna traps	pair 45.99
KW-12 Reyco 12m antenna traps	pair 45.99
KW-10 Reyco 10m antenna traps	pair 45.99
W2AU/W2VS 5-band ant kit (use tuner)	D 85.99
W2AU/W2VS NoWire 5band ant kit (use tuner) less wire	78.99

## W4RT (W4R)

Antenna Boss interface; mot ant/FT100/847/57/97	D \$169.99
Antenna Boss II interface; motor ant/IC706/7000/etc	D 169.99
KB-2 Cable for Ant Boss II w/LDG K-OTT	D 2.99
YB-OTT FT-100/817/857/897 interface	D 39.99
YB-2 Cable; Ant Boss II w/W4R YB-OTT	D 2.99
Mini VNA Software defined antenna analyzer	399.99
0BF-703/718-DIY CW&SB Collins flts; IC703/718	239.99
0BF-817/ND-DIY CW & SSB Collins flts; FT-817	239.99
0BP-STD Speech compress; 817/47/57/97 handmic	49.99
0BP-UNIV Speech compress; IC706/FT100 handmic	49.99
OPF-Y-CW-300 300Hz CW filter; FT817/57/97/2000	114.99
OPF-CW 500Hz CW filter; FT817/57/97/2000	109.99
OPF-SSB 2.3KHz Collins SSB filter; FT817/57/97	129.99

## W5YI (W5Y)

BCOM Basic Communications Electronics book	\$ 19.99
BDIG Basic Digital Electronics book	19.99
BELC Basic Electronics book	19.99
ECS-08 Extra upgrade software w/manual	49.99
GROL Commercial license elements 1/3/8 manual	39.99
GRSP Commercial study software w/GROL book	69.99
GSTD Getting Started in Electronics book	19.99
GUS-07 General upgrade software w/manual	44.99
GW05/CD Gordon West 8 ea 0-5 wpm code CD's	39.99
GWCT Gordon West refresher code course CD's	14.99
GWEM-08 Gordon West Extra study manual	24.95
GWEM-08 Gordon West 6 ea Extra theory CD's	39.95
GWGM-07 Gordon West General study manual	20.95
GWGM-07 Gordon West 4 ea General theory CD's	29.95
GWTM-06 Gordon West Tech study manual	18.95
GWTM-06 Gordon West 4 ea Tech theory CD's	27.95
HOS-08 Ham operator software/ (all classes)	39.99
HOSB-08 Ham op soft/3 books (all classes)	94.99
Mini-1 Timer, op amp & optoelectronics	12.99
Mini-2 Science & communications	12.99
Mini-3 Electronic sensors	12.99
Mini-4 Electronic formulas, symbols & circuits	12.99
NCS-06 Technician software w/manual	39.99
TPG-07 Tech/General software/manuals/code	69.99

## WAHL (WAH)

7740 Quick charge cordless soldering iron kit	\$ 52.99
7971 30 minute butane soldering iron	25.99
7974 120 minute butane soldering iron	39.99

## WELLER (WEL)

7200PK 75w soldering gun kit	\$ 29.99
7235 Extra standard tips (2) for 7200PK	3.99
CHT-100 ColdHeat Pro soldering tool	D 29.99
SP-23LK 25w soldering iron kit	17.99
WP-25 25w professional soldering iron	38.99
ST-4 3/8" screwdriver tip for WP-25	3.99
ST-5 1/2" single flat tip for WP-25	3.99
W-60P 60w temp controlled soldering iron	73.99
CT-5E7 1/4" screwdriver tip for W-60P	D 3.99
WSD51 50w adjustable soldering station	169.99
WSTA3 Pyropen portable LP soldering iron	124.99
WST2 Pyropen Jr. portable butane iron	59.99
WTCPT 60w temp controlled soldering stn	149.99

## West Mtn Radio (WES)

CBA-2 Computerized battery analyzer w/software	\$119.99
CBA/TEMP Temperature probe for CBA-2	12.99
CLR/DSP ClearSpeech DSP noise reduction processor	219.99
CLR/SPKR ClearSpeech DSP noise reduction spkr	219.99
CS-1 COMspkr speaker system for ham station PC	39.99
PG-40 PWRgate simple backup power system	D 69.99
PG-40S PWRgate backup power sys w/charger	139.99
RB/DU/CUSB Rigblaster Duo; 8-pin/RJ-45	349.99
RB/PR/CUSB Rigblaster Pro; 8-pin/RJ-45	299.99
RB/PL/CUSB Rigblaster Plus; 8-pin/RJ-45	159.99
RB/NO/CUSB Rigblaster nomic universal; 8pin/RJ45	59.99
FT100/CBL 3' cable; Yaesu RJ-45/6-wire	18.99
RB/PP* Rigblaster plug & play USB data/aux jack	119.99
*Call before ordering for proper configuration with radio	
CATMINI/CBL Yaesu rig control cbl for RB/PP	13.99
CIV/CBL Icom/TenTec rig control cbl; RB/PP	9.99
RPA/18D Icom 8-pin DIN acc1 jack adapter	9.99
RPA/113D Icom 13-pin DIN aux jack adapter	9.99
RPA/K13D Kenwood 13-pin DIN aux jack adapt	9.99
RR/4005/C Rigrunner 40A 5outlet/cbl/connectors	84.99
RR/4008/C Rigrunner 40A 8outlet/cbl/connectors	119.99
RR/4010S/C Rigrunner FET 9outlet/cbl/connectors	149.99
RR/4012/C Rigrunner 40A 12outlet/cbl/connectors	129.99
RR/8012/C Rigrunner 80A 12outlet/cbl/connectors	159.99
C30/PK/12 12-pair 30A PowerPole connectors	12.99
C45/PK/12 12-pair 45A PowerPole connectors	17.99
PWR/TOOL PWRcrimp PowerPole crimp tool	54.99
RT-1 Rigtalk USB rig control interface	54.99
CATMINI/CBL Yaesu cable for RT-1	13.99
CIV/CBL Icom/Ten-Tec cable for RT-1	9.99
WHAT/MTR Whattmeter watt/volt/amp/amp hr	74.99

## Wiley Publishing (WIE)

GPS Dummies Gps for Dummies book	\$ 21.99
HR for Dummies Ham Radio for Dummies book	21.99
WX for Dummies Weather for Dummies book	21.99

## WILSON (WIL)

FGT-2/BLK 2' black fiberglass CB whip	19.99
FGT-3/BLK 3' black fiberglass CB whip	26.99
FGT-4/BLK 4' black fiberglass CB whip	29.99
FGT-4/WHT 4' white fiberglass CB whip	29.99
Little Wil Magnetic mt CB antenna	39.99
Trucker 2000 Black mobile 1/4-24 CB whip	62.99
W-1000 Magnetic Black mobile CB antenna	76.99
W-1000 Roof Top Black mobile CB antenna	59.99
W-1000 Trunk Lip Black mobile CB antenna	66.99

## WINEGARD (WIN)

CX-0625 25' RG-6 TV coax w/F connectors	\$ 10.99
CX-0650 50' RG-6 TV coax w/F connectors	15.99

## Winegard - continued AES Price

CX-0675 75' RG-6 TV coax w/F connectors	19.99
CX-6100 100' RG-6 TV coax w/F connectors	24.99
PR-7032 33 el 103.25" boom Prostar TV ant	D 89.99
PR-7042 43 el 149.75" boom Prostar TV ant	D 149.99
TV-2900 Outdoor TV matching transformer	2.99

## YAESU (YAE)

FTDX-9000 Contest 200w HF/6m Xcvr	*5199.99
*Price after instant coupon; coupon expires 10/31/08	
FTDX-9000D Deluxe 200w HF/6m Xcvr	*10999.99
*Price after instant coupon; coupon expires 10/31/08	
FTDX-9000MP High Power 400w HF/6m Xcvr	*11549.99
*Price after instant coupon; coupon expires 10/31/08	
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MH-3188 Extra hand microphone	49.99
SP-9000 Ext dual spkr sys/audio flts; D/Contest	369.99
YH-77STA Open-air type stereo headphones	59.99
FT-2000 100w HF/6m AC/DC DSP Xcvr	2449.99
FT-2000D 200w HF/6m DSP Xcvr	3099.99
(W4R) OPF-Y-CW-300 300Hz Collins CW filter	114.99
(W4R) OPF-CW 500Hz Collins CW filter	109.99
CT-119 FT-2000 firmware upgrade cable	28.99
DMU-2000 Data management unit	949.99
FH-2 Remote keyboard	99.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MH-3188 Extra hand microphone	49.99
MTU-160 u-tuning kit A for 160m	499.99
MTU-80/40 u-tuning kit B for 80/40m	499.99
MTU-30/20 u-tuning kit C for 30/20m	499.99
SP-2000 External speaker w/audio filters	199.99
T-9101556 Rotor control to FT-2000 cable	25.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YH-77STA Open-air type stereo headphones	59.99
FT-950 HF/6m Xcvr/IF-DSP/tuner	1479.99
(BET) Yae Tune Control for FT-950	44.99
CT-118 Control cable; FT-950 to Quadra	40.99
DMU-2000 Data management unit	949.99
DVS-6 Voice memory unit	70.99
FC-40 Automatic wire antenna tuner	249.99
FH-2 Remote keyboard	99.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MTU-160 u-tuning kit A for 160m	499.99
MTU-80/40 u-tuning kit B for 80/40m	499.99
MTU-30/20 u-tuning kit C for 30/20m	499.99
SP-2000 External speaker w/audio filters	199.99
T-9101556 Rotor control to FT-950 cable	25.99
T-9023725 Extra DC cable	21.99
T-9207451 6.5' 10p DIN cbl; FT950/other amp	36.99
T-9207460 4' 10p DIN cbl; FT950/other amp	29.99
YH-77STA Open-air type stereo headphones	59.99
FT-450 Compact HF/6m Xcvr/IF-DSP	*649.99
*Price after instant coupon; coupon expires 10/31/08	
(BET) Yae Tune Control for FT-450 series	44.99
ATU-450 Internal coax auto antenna tuner	129.99
FT-450AT Compact HF/6m Xcvr/IF-DSP/tuner	*749.99
*Price after instant coupon; coupon expires 10/31/08	
(BET) Yae Tune Control for FT-450 series	44.99
CT-118 Control cable; FT-450 to Quadra	40.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
ATAS-120 HF/6/2/430 motorized mob ant	299.99
ATBK-100 Antenna base kit; use w/base mt	99.99
FC-40 Automatic wire antenna tuner	249.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MHG-1 Carrying handle	15.99



## Yaesu - continued

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MMB-90 Mobile mounting bracket .....	45.99
T-9023725 Extra DC cable .....	21.99
T-9027451 6.5' 10p DIN cbl; FT450/other amp	36.99
T-9027460 4' 10p DIN cbl; FT450/other amp	29.99
YH-77STA Open-air type stereo headphones	59.99
<b>FT-897D</b> HF/6m/2m/430 port/base Xcvt/TCXO	*799.99
<b>*Price after instant coupon; coupon expires 10/31/08</b>	
(BET) <b>Yae Tune Control</b> for FT-897 series	44.99
(W4R) <b>OPF-Y-CW-300</b> 300Hz Collins CW filter	114.99
(W4R) <b>OPF-CW</b> 500Hz Collins CW filter	109.99
(W4R) <b>OPF-SSB</b> 2.3KHz Collins SSB filter	129.99
FP-30 Internal power supply .....	229.99
ADMS-4B Windows prog software w/cable	59.99
ATAS-120 HF/6/2/430 motorized mob ant	299.99
ATBK-100 Antenna base kit; use w/base mt	99.99
ATAS-25 40/20/15/10/6/2/430 7.2' port ant	249.99
CT-39A Packet cable .....	11.99
CT-62 CAT interface cable .....	36.99
EDC-20 Extra DC cable .....	18.99
FC-30 Antenna tuner; bolts to FT-897	199.99
FC-40 Automatic wire antenna tuner .....	249.99
FNB-78 4.5ah NiMH batt (will accept 2)	129.99
CD-24 4-hr 12vdc charge adapter; FNB-78	129.99
PA-26B 110vac charger for CD-24	89.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MH-36E8J TTP mic .....	69.99
MH-59A8J Remote control TTP mic	79.99
MLS-100 Mobile speaker .....	49.99
MMB-80 Mobile mounting bracket	39.99
T-9023225 Extra DC cable .....	26.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C 500Hz Collins CW filter .....	169.99
YF-122CN 300Hz Collins CW filter .....	169.99
YF-122S 2.3KHz Collins SSB filter .....	169.99
YH-77STA Open-air type stereo headphones	59.99
<b>FT-857D</b> Mini HF/6m/2m/430 Xcvt/DSP	*699.99
<b>*Price after instant coupon; coupon expires 10/31/08</b>	
<b>FREE YSK-857 with FT-857D thru 10/31/08!</b>	
(BET) <b>Yae Tune Control</b> for FT-857 series	44.99
(W4R) <b>OPF-Y-CW-300</b> 300Hz Collins CW filter	114.99
(W4R) <b>OPF-CW</b> 500Hz Collins CW filter	109.99
(W4R) <b>OPF-SSB</b> 2.3KHz Collins SSB filter	129.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
ADMS-4B Windows prog software w/cable	59.99
ATAS-120 HF/6/2/430 motorized mob ant	299.99
ATBK-100 Antenna base kit; use w/base mt	99.99
ATAS-25 40/20/15/10/6/2/430 7.2' port ant	249.99
CT-39A Packet cable .....	11.99
CT-58 Band data cable; Yaesu amplifier	34.99
CT-62 CAT interface cable .....	36.99
EDC-20 Extra DC cable .....	18.99
FC-30 Antenna tuner .....	199.99
FC-40 Automatic wire antenna tuner .....	249.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic	399.99
MH-36E8J TTP mic .....	69.99
MH-59A8J Remote control TTP mic	79.99
MLS-100 Mobile speaker .....	49.99
T-9023225 Extra DC cable .....	26.99
TCXO-9 TCXO unit, 0.5 ppm .....	109.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C 500Hz Collins CW filter .....	169.99
YF-122CN 300Hz Collins CW filter .....	169.99
YF-122S 2.3KHz Collins SSB filter .....	169.99
YH-77STA Open-air type stereo headphones	59.99
YSK-857 Separation kit .....	69.99
<b>FT-817ND</b> 5w HF/6/2/430 Xcvt/FNB85/NC72B	599.99
(W4R) <b>OPF-817/ND-DIY</b> CW & SSB Collins filts	239.99
(W4R) <b>OPF-Y-CW-300</b> 300Hz Collins CW filter	114.99
(W4R) <b>OPF-CW</b> 500Hz Collins CW filter	109.99

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(W4R) <b>OPF-SSB</b> 2.3KHz Collins SSB filter	129.99
ADMS-4A Windows prog software w/cable	59.99
ATAS-25 40/20/15/10/6/2/430 7.2' port ant	249.99
CSC-83 Soft case w/side pocket for FT-817	29.99
CT-39A Packet cable .....	11.99
CT-62 CAT interface cable .....	36.99
EDC-6 Extra DC cord; plug & wire only	8.99
FNB-72 9.6v 1000mah nicad battery .....	19.99
FNB-85 9.6v 1400mah NiMH battery .....	69.99
MH-36E8J TTP mic .....	69.99
MLS-100 Mobile speaker .....	49.99
NC-72B Extra nicad wall charger .....	24.99
TCXO-9 TCXO unit, 0.5 ppm .....	109.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C 500Hz Collins CW filter .....	169.99
YF-122CN 300Hz Collins CW filter .....	169.99
YF-122S 2.3KHz Collins SSB filter .....	169.99
CT-61 Interface cable; FT-847 to amp .....	15.99
DVS-2 Digital voice module; Mk V/Field	199.99
FC-10 External coax feed auto tuner; FT-840	249.99
FC-800 External long wire auto tuner .....	369.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
FRB-5 Relay board; FTV-1000/original MP	9.99
MMB-20 Mobile mount; FT-840 .....	19.99
MMB-66 Mobile mounting bkt; FT-847 .....	19.99
SP-8 External speaker w/filters; Mk V/Field	169.99
T-9018320 DC cable; FT-840/847/Field	29.99
TCXO-4 TCXO unit; FT-840/FRG-100B	79.99
XF-117CN 300 Hz CW filter; FT-100D	49.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	169.99
YA-30 1.8-30 MHz broadband dipole ant	259.99
YF-110SN 2KHz 3rd IF SSB filit; Mk V/Field	119.99
YF-112A 6 KHz AM filter; FT-840 .....	99.99
YF-114CN 250Hz 2nd IF CW filit; Mk V/Field	119.99
YF-114SN 2KHz 2nd IF SSB filit; Mk V/Field	119.99
YF-115C 500Hz CW Collins filit; FRG/MkV&Field	119.99
YF-116A 6 KHz AM filter for FT-920 .....	99.99
YF-116C 500 Hz CW filter for FT-920 .....	99.99
YH-77STA Open-air type stereo headphones	59.99
YH-100 Separation kit for FT-100D	99.99
<b>Quadra System</b> VLA1000 HF+6m amp/ps/tuner	3899.99
<b>VR-500 Pack</b> HH Rcvr w/FNB-79/NC-60B	199.99
ADMS-3 Windows programming software	39.99
CSC-72 Soft case for VR-500 .....	19.99
EDC-5B DC adapter w/noise filter .....	26.99
EDC-6 DC adapter; plug & wire only	8.99
FNB-59 Nicad battery for VR-500 .....	9.99
FNB-79 Nicad battery for VR-500 .....	10.99
NC-60B Wall charger .....	16.99
<b>VR-5000</b> 1M-2.6G base rcvr AM/FM/SSB/cell blkd	599.99
DSP-1 DSP unit .....	119.99
DVS-4 Digital voice recorder .....	49.99
CA-34 Charger sleeve; NC-82/VR-120D	3.99
CSC-76 Soft case for VR-120D .....	14.99
EDC-15 DC adapter for VR120D .....	29.99
FM Unit-100 FM unit for FRG-100B .....	9.99
NC-82 Charger stand for VR-120D .....	6.99
PA-30B AC adapter for VR-120D .....	5.99
<b>FTM-10R</b> 50w 2m/40w 440 FM Xcvt/int mic	*319.99
<b>*Price after instant coupon; coupon expires 10/31/08</b>	
<b>FTM-10SR</b> 10w 2m/7w 440 FM Xcvt/int mic	*319.99
<b>*Price after instant coupon; coupon expires 10/31/08</b>	
<b>Bluetooth Kit</b> Kit w/BH-1/BU-1/CAB-1	159.99
CT-M10 20' separation cable .....	31.99
MEK-M10 Microphone jack .....	14.99
MH-68A6J Waterproof DTMF hand mic	59.99
MLS-200-M10 Waterproof external speaker	40.99
MMB-M10 Multi-angle stand bracket	30.99
MMB-M11 Multi-angle handle bar bracket	30.99
YHA-M10 2m/440 0/3db 19.7" antenna	40.99

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AES Price

AMK-1 License plate bracket for YHA-M10	23.99
COX-2MM 6.6' coax cable for YHA-M10	32.99
<b>FT-7800R</b> 50w 2m/40w 440 FM Xcvt/WX alert	264.99
<b>FREE YSK-7800 with FT-7800R thru 10/31/08!</b>	
ADMS-2K Windows programming software	39.99
CT-39A Packet cable .....	11.99
MLS-100 Mobile speaker .....	49.99
MMB-60 Quick release mobile mount	39.99
T-9021715 Extra DC cable .....	12.99
YSK-7800 Remote separation kit .....	49.99
<b>FT-8800R</b> 50w 2m/35w 440 FM Xcvt	379.99
<b>FREE YSK-8900 with FT-8800R thru 10/31/08!</b>	
ADMS-2I Windows programming software	39.99
CT-39A Packet cable .....	11.99
MLS-100 Mobile speaker .....	49.99
MMB-60 Quick release mobile mount	39.99
T-9021810 Extra DC cable .....	12.99
YSK-8900 Remote separation kit .....	49.99
<b>FT-8900R</b> 50w 10m/6m/2m/35w 440 FM Xcvt	424.99
<b>FREE YSK-8900 with FT-8900R thru 10/31/08!</b>	
ADMS-2H Windows programming software	39.99
CT-39A Packet cable .....	11.99
MLS-100 Mobile speaker .....	49.99
MMB-60 Quick release mobile mount	39.99
T-9021810 Extra DC cable .....	12.99
YSK-8900 Remote separation kit .....	49.99
ADMS-2E Windows prog soft; FT-2600M/90R	39.99
ADMS-2F Windows prog software; FT-1500M	39.99
ADMS-2G Windows prog soft; FT-7100M	14.99
<b>FT-1802M</b> 50w 2m FM Xcvt w/WX	139.99
ADMS-1802 Windows programming software	39.99
MLS-100 Mobile speaker .....	49.99
<b>FT-2800M</b> 65w 2m FM Xcvt w/WX alert	*149.99
<b>*Price after instant coupon; coupon expires 10/31/08</b>	
ADMS-2J Windows programming software	39.99
MLS-100 Mobile speaker .....	49.99
S-8002051/MMB-83 Extra mobile bracket	4.99
S-8101436 Extra DC cable .....	7.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
HRI-100 WIRES II interface box .....	149.99
LF-1 Mobile 13A DC noise filter .....	29.99
MLS-100 Mobile speaker .....	49.99
<b>VXR-7000VA/Vertex</b> 50w 2m FM AC/DC rpt	1269.99
VX VPL-1 Repeater programming cables	87.99
Repeaters require service dept set-up; \$45 minimum	
ADMS-1E Windows prog software; VX-5R	39.99
ADMS-1H Windows prog software; VX-2R	39.99
CLIP-10 Spring loaded belt clip; FT-50	1.99
CSC-68 Soft case; FT-50/FNB-41/FBA-15	9.99
CSC-71 Soft case for VX-1R .....	1.99
CSC-73 Soft case for VX-5R .....	9.99
CSC-90 Soft case for VX-2R .....	14.99
FBA-15 4-AA battery holder; FT-50RD	19.99
FBA-17 AA battery holder; FT-23/411/470	19.99
FBA-20 Battery holder for VX-1R .....	19.99
FBA-21 6-AA battery holder; FT-50RD	39.99
FNB-V47 7.2v 1100mah battw/belt clip; FT-50	34.99
NC-60B Wall charger for FT-10/50	16.99
Q-3000166 Replacement duck ant for VX-5R	29.99
<b>FT-60R</b> 5w 2m/440 FM HT	189.99
ADMS-1J Windows programming software	39.99
CN-3 BNC to SMA adapter .....	11.99
CT-27A Cloning cable .....	14.99
CT-44 2-pin spkr/mic adapter .....	14.99
EDC-5B DC adapter w/noise filter .....	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case .....	20.99
FNB-83 7.2v 1400mah NiMH battery	65.99
MH-34B4B Speaker/mic .....	39.99
MH-37A4B Earpiece/microphone .....	40.99



## Yaesu - continued

## AES Price

NC-88B Extra wall charger	24.99
VAC-370 Rapid charger	79.99
VC-25 VOX headset	69.99
<b>VX-150</b> 5w 2m FM HT/16-key TTP	127.99
ADMS-1F Windows programming software	39.99
CN-3 BNC to SMA adapter	11.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
CT-53 Packet cable	9.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99
FNB-V57 7.2v 1100mah battery	35.99
FNB-64 7.2v 700mah battery	36.99
FNB-83 7.2v 1400mah NiMH battery	65.99
LCC-150/TT Leather case	29.99
LCC-150S/TT Leather case w/swivel	36.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	40.99
NC-72B Extra wall charger	19.99
VC-25 VOX headset	69.99
<b>VX-170</b> 5w 2m FM HT/16-key TTP	*129.99
<b>*Price after instant coupon; coupon expires 10/31/08</b>	
<b>VX-177</b> 5w 440 FM HT/16-key TTP	149.99
ADMS-VX170 Windows prog software; VX-170	39.99
ADMS-VX177 Windows prog software; VX-177	39.99
CD-26 Charger cradle	30.99
CMP-460A Waterproof speaker/mic	69.99
CN-3 BNC to SMA adapter	11.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99
FNB-83 7.2v 1400mah NiMH battery	65.99
MH-57A4B Speaker/mic	30.99
MH-73A4B Submersible speaker/mic	60.99
NC-88B Extra wall charger	24.99
VAC-370 Rapid charger	79.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
<b>VX-3R</b> 1.5w 2m/1w 440 submini HT/lith ion	179.99
ADMS-VX3 Windows programming software	39.99
CN-3 BNC to SMA adapter	11.99
CSC-92 Soft case	15.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
EDC-21 DC adapter	42.99
FBA-37 3 AA cell battery case	20.99
FNB-82LI Extra 3.7v 1000mah lith ion batt	38.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	40.99
VC-25 VOX headset	69.99
<b>VX-6R</b> 5w 2m/440/1.5w 220 FM HT	249.99
ADMS-VX6 Windows programming software	39.99
CD-15A Charger stand (use with NC-72B)	34.99
CMP-460A Waterproof speaker/mic	69.99
CN-3 BNC to SMA adapter	11.99
CSC-91 Soft case	15.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1300mah lith ion batt	79.99
MH-57A4B Speaker/mic	30.99
MH-73A4B Submersible speaker/mic	60.99
NC-72B Extra wall charger	19.99
SU-1 Altitude/barometric pressure sensor	39.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
<b>VX-7R</b> Silver 5w 6m/2m/440/300mw 220 FM HT	*294.99
<b>*Price after instant coupon; coupon expires 10/31/08</b>	

## Yaesu - continued

## AES Price

<b>VX-7RB</b> Black 5w 6m/2m/440/300mw 220 FM HT	*294.99
<b>*Price after instant coupon; coupon expires 10/31/08</b>	
ADMS-1G Windows programming software	39.99
CD-15A Charger stand (use with NC-72B)	34.99
CMP-460A Waterproof speaker/mic	69.99
CN-3 BNC to SMA adapter	11.99
CSC-88 Soft case	15.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1300mah lith ion batt	79.99
MH-57A4B Speaker/mic	30.99
MH-73A4B Submersible speaker/mic	60.99
NC-72B Extra wall charger	24.99
Q-3000185 Replacement duck ant	29.99
SU-1 Altitude/barometric pressure sensor	39.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99

## ANTENNA ROTORS

G-450A 10 sq ft antenna rotor/5-wire	\$259.99
G-550 12 sq ft elevation rotor/6-wire	289.99
G-800SA Med/hvy duty 450 degree 17sq ft/5-wire	339.99
G-800DXA Med/hvy duty 17sq ft/presets/5-wire	399.99
G-1000DXA HD 450 degree 23sq ft/presets/6-wire	499.99
G-2800DXA HD 450 degree 34sq ft/presets/6-wire	1099.99
Note: G-2800DXA comes w/40m (131') of rotor cable	
G-5500 11 sq ft azimuth/elevation rotor/2x6-wire	619.99
GC-038 Mast clamp; G-450/800/1000/5500	39.99
GC-048 Mast clamp; G-2800	49.99
GL-33 Mast adjustment plate	18.99
GS-050 50mm thrust bearing; mast 1 1/2"-2"	39.99
GS-065 65mm thrust bearing; mast 1 1/2"-2 1/4"	54.99
GS-232B Computer interface; DXA rotors	589.99
C-1000 Interface cable; GS-232A/B - SDX/G5500	34.99
GS-680U Universal self-adjusting mast bearing	109.99
Sep Kit Separation kit for G5500	29.99

## See BELDEN for rotor cable

## CONSUMER ELECTRONICS

VXA-710 Spirit 5w air handheld	\$349.99
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## CLOSE-OUTS

ALA Zap Checker/180 Transmitter/bug detector	\$ 89.99
ALP Pathfinder 1.8-30+6m dig auto ant tuner	199.99
ANX FG-1440/FM-2 2m 92" fg unity N base/mt	99.99
ANX FG-1443/FM-2 2m 107" fg 3db N base/mt	149.99
ANX FG-4403/FM-2 440-450 44" fg 3db N base/mt	99.99
ANX FG-4405/FM-2 440-450 76" fg 5db N base/mt	149.99
AOR ARD-9000 Digital SSB interface	259.99
AOR ARD-9800 Digital SSB/SSTV interface	459.99
AOR AR-3000AB 1-2036MHz dtx w/SB/cell bkld	699.99
B&W AC-110 Continuous 1.8-30 MHz vee ant	259.99
B&W BWD-20 14-30 MHz 20' folded dipole	249.99
B&W BWD-45 7-30 MHz 45' folded dipole	249.99
B&W BWD-65 4-30 MHz 65' folded dipole	299.99
BOU Land Ranger Metal detector/programmable	349.99
BOU Time Ranger Metal detector/top-of-the-line	399.99
CSY CS-800 Desk duplex interconnect/rptr controller	279.99
DCI 223.5-3H 222-225 200w bandpass filter	149.99
DIA F-23A 2m 7.8db 15' base antenna	129.99
DIA G-200 2.4GHz 11db 6' N base antenna	139.99
DIA MAY-1000 2el 120-500MHz handheld beam	99.99
DIA X-510NA 2m/440 8.3/11.7db 17.2' N ant	199.99
DIA X-700HNA 2m/440 9.3/13db 24' N ant	389.99
ESP ESP-1 Microphone audio processor	169.99
GAR cQue-1620 GPS module for Pocket PC's	119.99
GAR Forerunner 201 Wrist GPS/personal trainer	139.99
GAR Foretrex 101 Wrist GPS	99.99
GAR GPS-183B Dlx GPS sensor; laptop/serial/mag/soft	99.99
GAR GPS-185B Dlx GPS sensor; laptop/USB/mag/soft	99.99
GAR GPS-60 GPS w/1MB internal memory	129.99

## Close-Outs - continued AES Price

GAR GPS-MAP60 GPS w/24MB internal mem	189.99
GAR iQue-3600 Handheld PDA/integrated GPS	299.99
GAR Rino-120 GPS/FRS/GMRS/8mb mem/basemap	149.99
GRU E-100 Portable AM/FM/SW receiver	89.99
HEI HCL-4 Classic 1930's desk mic/studio el & HC-4	169.99
HEI PSQP-4 Pro-Set Quiet Phone 4 boom mic/headph	229.99
HEI PSQP-5 Pro-Set Quiet Phone 5 boom mic/headph	219.99
HIS HS-214CL 1 1/4" rovr lay back adapt; univ mtg bkt	99.99
ICO AH-2B extra whip only	89.99
ICO BC-119-N11 Nicad/NiMH desk cgr (use adapt)	99.99
ICO BC-119-N21 Nicad/NiMH desk cgr; 8T1A	99.99
ICO BP-222 9.6v 2800mah external nicad pack	98.99
ICO IC-M32 Waterproof 5w VHF marine handheld	119.99
ICO OPC-598 23' extension cable; AT-180	79.99
KAN MT-1200 Mob Tracker TNC; ext NMEA GPS	179.99
KAN MT-1200G Mobile Tracker TNC w/GPS/ant	269.99
KEN DFK-7C Dlx 23' rem cable kit; TMG707A	99.99
KEN SO-2 TCXO unit; TS-570D/S	179.99
KEN SP-31 External speaker; TS-870S	99.99
KEN SP-950 Ext spkr/audio filters; TS-950SDX	149.99
KEN YK-88C-1 500 Hz CW filter; TS-570D/S	129.99
KEN YK-88CN-1 270 Hz CW filter; TS-570D/S	129.99
KEN YK-88SN-1 1.8 KHz SSB filter; TS-570D/S	129.99
LDG AT-200PC 160-6m 5-250w/100w/6m PC d/tuner	169.99
LDG AT-1000 1000w PEP HF/100w 6m auto tuner	429.99
LDG TW-2 6m-440 250w PEP talking wattmeter/SWR	139.99
MFJ 1214PC Multimode interface for IBM	99.99
MFJ 442 SlimLine keyer/Benchcr combo	119.99
MFJ 624D 8p phone patch w/audio VU meter	119.99
MFJ 1786 Super Hi-Q 10-30 MHz low dtx control	419.99
MIR D-15N 430 FM/SSB/ATV 2/15w type N amp	119.99
MIR D-26N 440 FM/SSB 2/60w type N amp	179.99
MSQ 2M-4-Port-Pd 2m 4-port N pwr divider	99.99
MSQ 2M-18XXX 2m 144-146 15.3db 18el 363" bm	299.99
MSQ 2M-CP22 2m 12.5db 11h/11v 18'6"bm circ	299.99
MSQ 222-5WL 220 15.2db 15el 23'3" boom	199.99
MSQ 222-7EZ 220 9.8db 7el 5' 8" boom	99.99
MSQ 222-7WL 220 16.4db 23el 32'5" boom	249.99
MSQ 23CM-35 1.2GHz 18.4db 35el 10' boom	199.99
MSQ 440-21ATV 432 15.9db 21el 14'6" bm ATV	149.99
OUT OB-8 75-10m 300w PEP 6' 8-band mob ant	299.99
OUT OB-M 75/40/20/17/10m/HF marine 300w PEP 6'	399.99
OUT OB-S8 75-10m 300w PEP split ant/bag	299.99
PLY CS112-100 100' 1 1/2" copper strap	149.99
PLY PLD0-120US15A 120v 15A power protector	119.99
SAN PT-80 Deluxe AM/FM/SW portable Rcvr	129.99
SON ICF-SW12 AM/FM/SW travel Rcvr/world clock	69.99
SON ICF-SW35 AM/FM/SW portable receiver	69.99
UNI MHS-350 Waterproof 5w VHF marine HH	119.99
UNI UM-525 25w VHF marine Xcvr w/hailer	149.99
UNI UM-625X 25w VHF mar Xcvr/color TFT/hailer	219.99
VIB 153 Gold straight key	249.99
VIB 170 Dlx Hand key/VibroKeyer Paddle double	299.99
VIB 175 Std Hand key/lambic Paddle double	249.99
VIB 180 Std Hand key/VibroKeyer Paddle double	249.99
VIB 185 Square Racer Deluxe lambic paddle	129.99
WIN PR-7032 33 el 103.25" boom Prostar TV ant	89.99
WIN PR-7042 43 el 149.75" boom Prostar TV ant	149.99
YAE DVS-2 Digital voice module; Mk V/Field	199.99
YAE FC-10 External coax fed auto tuner; FT-840	249.99
YAE FC-800 External long wire auto tuner	369.99
YAE SP-8 External speaker w/filters; Mk V/Field	169.99
YAE YF-110SN 2KHz 3rd IF SSB filt; Mk V/Field	119.99
YAE YF-112A 6 KHz AM filter; FT-840	99.99
YAE YF-114CN 250Hz CW filter; Mk V/Field	119.99
YAE YF-114SN 2KHz SSB filter; Mk V/Field	119.99
YAE YF-115C 500Hz CW Collins filt; FRGMKV&Field	119.99
YAE YF-116A 6 KHz AM filter for FT-920	99.99
YAE YF-116C 500 Hz CW filter for FT-920	99.99
YAE YSK-100 Separation kit for FT-100D	99.99



## Demo Gear

- Fully Service Tested New Demonstrator or Display Equipment
- Repacked in Original Cartons
- Manufacturer's Warranty

Demo inventory as of 8/22/08. Current list available for viewing at [www.aesham.com](http://www.aesham.com) under Prices

### ALAN BROADBAND

ZAPCHECKER 180 ZAP 79.99m

### ALINCO

DJX2T RCVR 119.99m  
DJX30T RCVR 179.99m  
DJX7T RCVR 149.99m  
DR620T 2M/440 XCVR 269.99c  
DX70TH HF/6M XCVR 599.99m  
DX77T HF XCVR 629.99f  
EBP35N BATTERY 59.99c  
EBP36N BATTERY 59.99c  
EDC111 QUICK CHARGER 45.99f  
EME13 HEADSET 54.99m  
EMS51 HEADSET 29.99m  
ERW4 PC CABLE/ERW4C 39.99m  
ESC18 CASE 9.99m

### ALPHA DELTA

PATHMINDER COAX SWITCH 79.99m

### AMECO

HP300T HIGH PASS FILTER 5.99v  
PT3 PREAMP 119.99m  
P12T POWER SUPPLY 8.99m

### AMERITRON

ALS500RC REMOTE KIT 39.99m  
PNP7D KNWD CABLE 14.99c  
PNP8MK TS480 CABLE 14.99c  
QSK5 T/R SWCH 305.99c  
SPS75 POWER SUPPLY 324.99m

### ANTENEX

GB8PSTI NMO MAG MT 30.99c  
LBMB9034 MIRROR MOUNT 8.99v  
TRAT1420 2M PHANTOM ANT 39.99m

### AOR

AR16B HANDHELD SCANNER 99.99v  
AR3000A RCVR 629.99m  
AR3000A RCVR/NO ANT 599.99m  
AR8200MKIIB RCVR 514.99m  
LA380 LOOP ANTENNA 339.99m  
SC8200P CASE 9.99m  
SDU5500 SPECT SCOPE 449.99m  
TDF370 DSP UNIT 199.99m

### ASTRON

RS10A 7.5A P/S 62.99c  
RS35M 25A P/S 161.99c  
RS7A 5 AMP P/S 53.99v

### AVMAP

G4T GPS NAVIGATOR 299.99m

### BETTER RF

706 TUNE CONTROL 29.99m

### BOUNTY HUNTER

FASTTRACKER METAL DET 49.99m

### CORBA

25LTD CLASSIC CB 79.99m  
75WXST AM MOBILE CB 89.99v

### COMET

CK5N N MOUNT 39.99m  
HD5M HD LIP MOUNT 62.99c

### COMM-SPEC

TE32 TONE ENCODER 53.99c

### CSS

PKTERMFORWIN SFTWARE 89.99v

### CUSHCRAFT

CS147M 2M MAG MT ANT 57.99v  
R8GK GUY KIT; R8 49.99f

### DAVIS

7400 INDOOR WX STATION 69.99v  
7654 SOLAR REPEATER 69.99m  
7852 RAIN COLLECTOR 59.99c  
7862 WXLINK INTERFACE 79.99m

### DCI

44510C UHF FILTER 107.99v

### DIAMOND

F23A 2M 15' BASE ANT 107.99m  
K412CNMO MOUNT 54.99m  
K550KM MOUNT/CABLE 62.99c  
K601NMO NMO MOUNT 59.99m  
MX72D HF-2M/440 DPLEXR 43.99v  
SG7900ANMO 2M/70 ANT 99.99v  
SPMNMO MAG MOUNT 39.99v  
X50NA 2M/440 4.5/7.2DB 5 94.99c

### EASY-UP

EZ2924S CHIMNEY MT 19.99f

### EXCALIBUR

908 CHESSBOARD 53.99f

### GARMIN

GPS12XL GPS 109.99m  
GPS72 GPS 99.99m  
0101014100 CABLE 17.99m

### GRUNDIG

E100 SWL RCVR 79.99mf  
G2000A RCVR 34.99m  
YACHTBOY 550PE SW RX 69.99f

### HEIL

AD11C ADAPTER CABLE 18.99c  
AD100 MC/MB ADP FT100 18.99c  
CC1XLRI ADAPTER CABLE 31.99c  
CC1XLRY ADAPTER CABLE 31.99c  
HCL5 CLASSIC MIC 219.99v  
HC5 FULL RING ELEMENT 40.99c  
HMPRO MICROPHONE 69.99m  
HM10DUAL MICROPHONE 114.99m  
HM4 MICROPHONE 74.99f  
HMS MICROPHONE 79.99mf  
HQP NOISE CANX PHONES 89.99v  
PROSETPLUS HEADSET 189.99m  
PR40 MICROPHONE 293.99c

### HIGH SIERRA

PLATINUM PACK/HS1800 489.99m

### HUSTLER

G71504 BASE ANTENNA 69.99m  
MO2 MAST 34.99m  
RM75S 75M RESONATOR 49.99m

### HYGAIN

CD451I ROTOR 349.99m  
TXZ HEAVY DUTY ROTOR 557.99f

### ICOM

BC119N21 CHARGER 79.99m  
BC135 DESK CHGR W/CUP 44.99c  
BC144(01) CHARGER 34.99m  
BP198 BATTERY 49.99m  
BP211 BATTERY 49.99m  
BP211N BATTERY 59.99c  
CP17L CIG ADAPTER 19.99m  
CP18A CIG DC CBL 24.99c  
CSWHH4 SOFTWARE/CABLE 44.99m  
HM133 MICROPHONE 89.99v  
HM158L SPKR/MIC 38.99m  
HM46 SPEAKER MIC 39.99c  
HM46L SPKR/MIC 39.99m  
HS105A HEADSET 24.99m  
HS85 HEADSET/VOX 79.99m  
ICP7A 2M/440 HT 214.99c  
ICU82 UHF HT 109.99m  
ICV82 2M HT 124.99m  
IC7000 XCVR 1,349.99m  
LC137 CASE 24.99c  
MB85 BCKT 14.99m  
OPC254L DC CABLE 12.99v  
OPC589 8-PIN ADAPT CBL 31.99m  
RMK7000 SEP KIT 79.99m  
RSR75 SOFTWARE/R75 69.99m  
R20(06) RCVR 459.99c  
R5(06) RCVR 179.99m  
R75 RCVR 539.99m

### ISOTRON

80 80M ANTENNA 89.99v

### KENWOOD

HMC3 VOX/HDST 44.99m  
KSC24 RAPID CHARGER 39.99m  
MC58DM MIC 69.99v  
MJ88 MOD/8PIN ADAPTER 29.99c  
PB33 BATTERY 69.99v  
PG3J CIG CORD/FILTER 34.99m  
SC51 SOFT CASE THF6A 14.99c  
SMC34 SPKR/MIC 28.99v  
THK2AT 5W 2M HT 124.99c  
TMD700A 2M/70CM XCVR 439.99m  
TS480SAT/YF-107CN 1,159.99m  
UBC4 DESK CHGR/UPB1 4.99v  
SC51 SOFT CASE 15.99v

### KOSS

QZ99 NOISE RDC STPH 53.99c

### LA CROSSE

WS8015U WIRELESS WX ST 99.99m  
WS7038UF WIRELESS RAIN 39.99m

### LARSEN

BASE MTG KIT 49.99v  
KG144UDPL 2M GLASS MT 69.99m  
NMO150C 2M ANTENNA 27.99m  
NMO150TLM 2M ANTENNA 44.99v  
OM150CK 2M ANTENNA 62.99c  
POMM SO239 MAG MOUNT 29.99c

### LDG

ALIC1 INTERFACE CABLE 17.99c  
ICOMIC2 INTERFACE CABLE 7.99c  
RBA4:1 4:1 BALUN 27.99v

### LIGHTWAVE

LWHT HEADBAND LIGHT 14.99v

### MAKA

MHBP180 BATTERY 44.99m  
MHC777PLUSII UNV CGR 67.99v  
MHPB42LI 1800MAH BATT 62.99v  
MHSC803 ADAPTER/MHC888 1.99m

### MFJ

1024 ACTIVE ANTENNA 119.99m  
1040B RX PRESELECT 79.99v  
118 24/12 HR CLOCK 22.99c  
1214PC INTERFACE 89.99c  
1224 INTERFACE 49.99m  
123 ATOMIC CLOCK 39.99m  
1272MYH TNC/MIC SW 29.99v  
1279M SNDCRD INTF 115.99v  
1622 40-2M ANTENNA 89.99f  
1701 6-POS COAX SW 53.99v  
1786 LOOP ANTENNA 379.99m  
201 DIP METER 114.99f  
297 DESK MIC 49.99m  
333BS UHF MAG MT 12.99c  
392B HEADSET 21.99c  
418 CODE TUTOR 80.99c  
451 CW KEYBOARD 89.99v  
452 CW KEYBOARD UNIT 99.99m  
461 MORSE READER 80.99c  
464 CW READER W/KEY 161.99c  
490 PADDLE/KEYER 179.99v  
498X KEYBOARD KEYS 49.99m  
5022X HT TO PK232 CABLE 9.99m  
5063 TNC CABLE 8.99c  
5084 TNC-8 PIN CABLE 5.99c  
5124Y INTERFACE CABLE 39.99m  
5383Y INTERFACE CABLE 9.99v  
616 SPEECH ENHANCER 169.99m  
624D PHONE PATCH 109.99f  
641K CHARGER 9.99v  
852 NOISE FINDER METER 98.99c  
8621 DATA RADIO 89.99m  
986 TUNER 289.99m  
993B TUNER 224.99f  
998 1.5KW AUTO TUNER 584.99v

### MILAND

74250C WEATHER RCVR 39.99m  
75510 FRS RADIO 19.99c

### MIRAGE

B215G 2M AMPLIFIER 299.99m  
D1010N 440 FM/SSB AMP 341.99c  
KP1/440 440 PREAMP 125.99m

### M2

BIGFOOT MAG MOUNT 114.99m  
2M5440XP DUAL BND YAGI 124.99c

### NCS

LO28PIY CABLE 15.99m

### DRECON SCIENTIFIC

WR196T WX RADIO 19.99m

### OUTBACKER

PERTH 75-10M 150W PEP 296.99v

### PALOMAR

VLF5 VLF CONVERTER 79.99m

### POLYPHASE

PLDO120US20A PROTECTOR 169.99m

### ROHN

R-25G7 25G SECTION (NEW) 199.99v

### RCA

RP3710 AM/FM CLOCK RADIO 14.99m

### SANGEAN

ATS404 SWL RCVR 69.99m  
ATS909 SWL RCVR 224.99m  
PT80 SWL RCVR 143.99c  
RCR2 AM/FM RADIO 59.99m

### SGC

5422 SG-239 SMARTUNER 176.99m

### SMILEY

SMISSIII 220 SUPER STICK 17.99v  
SSIII 220 SUPER STICK 17.99v  
SSIV 70CM SUPERSTICK 17.99m

### SONY

ICFSW12 SWL RCVR 59.99m  
ICFSW30 SWL RCVR 59.99c  
ICFSW35 SWL RCVR 59.99m  
ICFSW7600GR SWL RCVR 143.99v

### TERK

LF30S WIRELESS VID/AUDIO 89.99c  
MOD41 RF MODULATOR 24.99m  
TV50 AMPLIFIED TV ANT 49.99v  
TV55 TV ANTENNA 89.99m

### TIMEWAVE

PK96/100K TNC 199.99c

### TRIPLITE

ISOBARULTRA 8 SURGE 67.99c

### UNIDEN

BCD996T SCANNER 469.99m  
BC244CLT SCANNER 69.99m  
BC246T SCANNER 199.99m  
BC370CRS SCANNER 125.99c  
BC72XLT SCANNER 89.99m  
BC92XLTSCANNER 79.99v  
BC95XLT SCANNER 107.99c  
BP250 BATTERY 14.99v  
SC180B SCANNER 99.99m  
SC230 SCANNER 179.99m  
VOYAGER MARINE HT 149.99f

### VALOR

AST6BTV HF ANTENNA 89.99m

### VECTRONICS

LP30 LOW PASS FILTER 62.99v

### VIBROPLEX

195 BLUE RACER STD 179.99m

### WELLER

7200PK SOLDERING GUN 24.99m

### W4RT

ANTBOSSII INTERFACE 119.99m  
ANTBOSS INTERFACE 134.99f  
OBP/STD MIC COMPRESS 44.99m

### YAESU

ADMSVX170 SOFTWARE 34.99c  
ADMS1H SOFTWARE 34.99m  
ADMS2G PROG SOFTWARE 9.99m  
ATAS25 40-430 ANTENNA 224.99c  
CD24 CHARGER 99.99m  
CMP460A SPKR/MIC 64.99m  
CSC69 FOR FNB40 2.99m  
CSC91 SOFT CASE, VX6R 12.99v  
CT58 CABLE 29.99m  
DV52 DIGITAL VOICE MOD 179.99m  
FNB41 BATTERY; FT50R 49.99v  
FNB59 BATTERY 8.99m  
FNB78 BATTERY 99.99m  
FNB80LI BATTERY 69.99m  
FNB82LI BATTERY 29.99m  
FT2000D HF/6M XCVR 2,789.99f  
FT2800M 2M MOBILE 159.99m  
GC038 MAST CLAMP 35.99c  
HRI100 WIRES UNIT 134.99m  
MH30A2B SPKR/MIC 9.99m  
MH30C2B SPKR MIC 9.99m  
MH37A4B EARPICE/MIC 34.99m  
MH57A4B SPKR MIC 27.99c  
MH68A6J MIC 54.99m  
NC55B CHARGER 6.99v  
NC82 CHGR STAND 8.99c  
PA26B CHARGER 79.99m  
VXA710 5W/AIRBAND HT 314.99c  
VX170 5W 2M HT 125.99m  
YSK857 SEPARATION KIT 59.99m

## Used Gear

- Fully Service Tested
- 10-day Trial (pay only shipping charges)
- 30-Day Guarantee
- Full Trade-in Credit within 90-days on Higher Priced New Equipment

Used inventory as of 8/22/08. Current list available for viewing at [www.aesham.com](http://www.aesham.com) under Prices

### ALINCO

EDC6 CHARGER 4.99m

### ICOM

AT180 AUTO ANT TUNER 259.99c  
IC7000 HF/VHF/UHF XCVR 1,099.99m  
IC706MKIIG XCVR/ MB62 764.99m  
IC706MKIIG XCVR 749.99m  
IC756PROII XCVR 1,879.99m  
IC756PROIII XCVR 2,199.99v  
RMK7000 SEP KIT 69.99m  
R3(26) RCVR 224.99m

### KENWOOD

TS870S HF XCVR 1,349.99m

### MFJ

1700C 6 POS ANT SWITCH 79.99f  
945E ANT TUNER 79.99m  
9475X 20W PEP SSB XCVR 207.99m

### PALOMAR

PT340 TUNER-TUNER 69.99m

### UNIDEN

SOLARA DSC MARINE HT 79.99m

### YAESU

CSC91 CASE (VX6R) 12.99m  
FTM10R 2M/70CV XCVR 249.99m  
FT1000D HF XCVR 1,999.99m  
FT817ND XCVR w/CSC83 505.99f  
MKVFIELD HF XCVR 1,299.99f



Location Codes: (m) Milwaukee 1-800-558-0411 • (c) Cleveland 1-800-321-3594 • (f) Orlando 1-800-327-1917 • (v) Las Vegas 1-800-634-6227

NOTE: there may be instant coupons that apply to Demo Gear which are not reflected in the displayed price.

Coupons will be applied to your final total. Please ask your salesperson for coupon availability.



*You're Invited to Attend our 15th Annual (2009)*



# SUPERFEST



An ARRL  
Sanctioned Hamfest

Friday, April 3rd; 2:00 P.M. to 6:00 P.M.

Saturday, April 4th; 8:30 A.M. to 3:00 P.M.

at AES (Milwaukee)

• **FREE Admission**

- **Over 30 Ham Manufacturer Representatives with Latest Gear on Display**
- **Over 30 Local Clubs & Organizations**
- **Variety of Interesting Forums • V.E. Testing • DXCC Card Checking**
- **Fox Hunt • Prize Drawings • Hot Food for purchase from Boy Scouts**
- **Talk-in: N9LKH (145.130/144.530; 127.3 Hz) • Free Parking/Shuttle Van**

*For more information contact: Ray Grenier, K9KHW (rayk9khw@aol.com)*

## Accurate Measurements NO EXCUSES.

**Professionally Engineered Cross Needle Meters**

Forward power, reflected power and VSWR are displayed simultaneously! No calibration required! Daiwa high quality instruments make the tedious measuring of SWR and Power during antenna tests, transmitter matching and tuning a very easy task.



### Professional Series

Accurate and dependable featuring a large, easy-to-read lighted meter. 13.8VDC jack on rear panel. 6"1 x 4 1/2" h x 4 1/2" d (approx.)

**CN-801HP**

PEP Reading SWR/Power Meter

Frequency Range: 1.8-200MHz

Forward Power Ranges: 20/200/2000W

**CN-801V**

Frequency Range: 140-525MHz

Forward Power Ranges: 20/200W

**CN-801SII**

Frequency Range: 900-2500MHz

Forward Power Ranges: 2/20W



### Economy Series

Accurate and dependable bench meters at an economy price.

Lighted, 13.8VDC jack on rear panel.

6"1 x 3" h x 4" d (approx.)

**CN-101**

Frequency Range: 1.8-150MHz

Forward Power Ranges:

15/150/1500W

**CN-103M**

Frequency Ranges: 140-525MHz

Forward Power Ranges: 20/200W

**CN-103N** (N-Type Conns)



### NEW! POWER SUPPLY

**SS-330W**

Convenient, lightweight 30 amp switching supply.

30 amps continuous

Dual meters

Adjustable voltage (5-15V)

Built-in fan

Weights less than 5 lbs.

Carrying handle



### Coax Switches

Patented design and excellent RF characteristics. Automatic grounding of unused circuits with heavy-duty die cast cavity construction.

**CS-201**

2-Position 600MHz Switch

Max. Power: 25kW PEP/1kW CW

Conns: SO-239

**CS-201GHI**

2-Position 2GHz Switch

Max. Power: 15kW CW

Conns: Gold plated N-Type



(714) 630-4541 • (800) 962-2611

(714) 630-7024 fax

www.natcommgroup.com



**SS-505**

Lightweight switching power supply

50 Amp Continuous, 55 AMP peak

Adjustable voltage, 5-15V

Can be used for DC motors requiring peak start-up voltage

Dual-use V/A meter

Built-in fan

Weight: 8lbs 6 oz





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## HF/6M BASE



**DX-70TH** Compact 100W HF/6M Transceiver  
Covers 160 to 6 meters with 0.15 - 30 & 50 - 54 MHz receive with SSB, CW, AM, FM modes. Detachable face; 100 multi-function memories; Dual VFOs; Split operation; Quick offset; Narrow filter; Noise blanker; Speech processor; CTCSS for 10 and 6 meter repeaters; Full, semi or auto break-in CW; All mode squelch; Two scan modes; Separate HF and 6M antenna connections; RTT; TXIT; Selectable AGC; Dial lock; Auto antenna tuner interface. Dim: 2.3" h x 7" w x 9" d; 8.3 lbs. .... **SPECIAL ORDER \$669.99**

### Available Accessories

DM330MVT 30A switching power supply with meter, DM340MVT 30A power supply w/meters, EBC8 Front control head bracket, EBC9 Extra mobile bracket, EDS5 5' mic extension cable, EDS6 15' remote cable, EDX2 160-10M auto wire tuner, EMS14 Desk mic, PC25 DC cable

## 6M & 10M MOBILES



**Common Features:** 100 alphanumeric memory channels, VFO/Memory/Program scan with Busy/Timed settings and Tone scan. Tone squelch (Encode/Decode tone separately selectable), DCS, DTMF tones featuring 10 programmable memories (Auto-Dialer) and 4 tone-burst tones. Direct frequency input and control of major functions via the backlit microphone keypad. Time-out-timer; Auto-power-off; Busy-channel lockout; Theft alarm; Ignition key on/off feature (with optional cable). Cloning cable included. Dim: 5.85" w x 1.57" h x 6.83" d, 2.21 lbs.

**DR-06T** 6M FM Transceiver - Covers 50 to 53.995 MHz. Power: 50W (High), 20W (Mid), 5W (Low). With the optional EJ-41U TNC board, the DR-06T can be instantly switched from voice to 1200/9600bps packet. 13.8VDC @ 11A. .... **\$279.99**

**DR-03T** 10M FM Transceiver - Looks like the DR-06T. Covers 28 to 29.695 MHz. Power: 10W (High), 5W (Mid), 1-4W (Low). 12VDC @ 3A. .... **\$279.99**

### Available Accessories for DR-06T Only:

EDC37 Key ON/OFF cable, EDC43 Key ON/OFF cable for cigar socket, EJ41U TNC board, EJ47U Digital Voice modem

**ALINCO**  
AMATEUR RADIO'S VALUE LEADER™

## VHF & UHF MOBILES



**DR-135TMKIII** 2M Mobile Transceiver - Covers 144-148 MHz transmit with 118-135.995 MHz (AM aircraft) & 136-173.995 MHz receive. Power levels: 50/10/5W; Wide/Narrow FM; 100 alphanumeric memories; Large alphanumeric LCD display; Dimmer; TXCO with  $\pm 2.5$ ppm stability; CTCSS encode/decode/DCS, Four European tone bursts; Backlit DTMF microphone; Ten autodial memories; Multiple scanning modes; Front panel GPS input for APRS; Rear PC connection; Ignition key On/Off feature; Theft deterrent system alarm; Timeout timer; Mobile bracket with hardware, DC cord, alarm cable; Optional TNC; 13.8V DC @ 11A. Dim: 5.58" w x 1.57" h x 6.83" d; 2.3 lbs. .... **\$189.99**

**DR-135TPMKIII** - Same as 135TMKIII with addition of the TNC for 1200/9600bps packet and APRS operation. .... **\$299.99**

**DR-235TMKIII** - Covers 222-224.995 MHz TX & 216-279.995 MHz RX; 25W/10/5W out. .... **\$279.99**

**DR-435TMKIII** - Covers 430-450 MHz TX & 350-511.995 MHz RX; 35/10/5W output .... **\$289.99**

### Available Accessories:

EDC37 DC cable, EDC43 Cigarette lighter cable, EJ41U 1200/9600 TNC (TMKIII's only), EJ47U Digital board, ERW4 PC cable, ERW7 USB PC cable, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable, SW620 Windows programming software



## DR-635T Twin band Mobile Transceiver

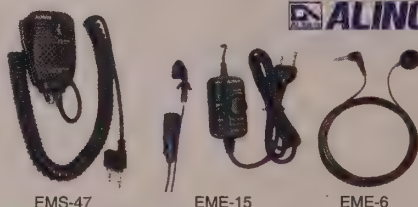
Transmit coverage: 144-147.995 and 430-449.995 MHz; Receive coverage: 108-173.995 and 335-480 MHz includes VHF AM air band and FM broadcast (87.5-108 MHz). 200 alpha memories. Power: (VHF) 50/20/5W and (UHF) 35/20/5W. Dual band receive capability (V/V, U/U, V/U and U/V) with cross-band repeat. Large, three color LCD shows status icons and alphanumeric tags. CTCSS & DCS encode/decode + 4 different tone bursts. Includes: auto power off, time out timer, tone burst, scan, lock-out, dimmer, VFO auto program, theft alarm, narrow FM, supply voltage display and remotable head. Rear fan for cool operation during transmit. The front panel is remotable via the optional EDS-9 separation kit. Advanced Digital Mode (10F3) with speech compression is provided via the optional EJ-47U board. The supplied DTMF hand microphone allows setting parameters an direct frequency entry. Includes DC cable, mobile mounting bracket with hardware, anti-theft (ACC on/off) function cable and anti-theft sticker. .... **\$399.99**

### Available Accessories:

EDS9 Separation kit, EJ47U Digital board, EJ50U TNC unit, ERW4 PC cable, ERW7 USB PC cable, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable, SW620 Windows prog. software

**Order Now Toll Free  
from any AES Location**

## ALINCO ACCESSORIES



EMS-47

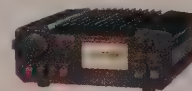
EME-15

EME-6

**EMS-47** Speaker Mic with Volume Control  
Speaker Mic with Volume Control for most current Alinco Handhelds. .... **\$29.99**

**EME-15** Tie Pin Mic with VOX/PTT - Tie Pin mic that lets you select between VOX or PTT operation. Clip the mic next to your mouth and place the earphone in your ear. Has a mic gain control to fine tune VOX operation. .... **\$69.99**

**EME-6** 3.5mm Mono Earphone - Standard 3.5mm Mono Sound Earphone. Can be used in thousands of audio items like radios, scanners, even MP3 players .... **\$14.99**



DM-330MVT



DM-340MVT

## DM-330MVT Switching Power Supply

Small, lightweight but provides 30A cont., 32A peak with variable voltage (5-15 VDC). Lighted V/A meter. Rear panel high current terminals and front panel cigar and quick disconnect terminals. Dim: 6.8" w x 2.6" h x 6.5" d, 4.4 lbs. .... **\$199.99**

## DM-340MVT Conventional Power Supply

Provides 30A continuous, 35A maximum at 50% duty cycle with variable voltage (0-25 VDC). Forced-air cooled; Separate Volt and Amp meters; Large 16mm main terminals plus 2 pairs of auxiliary snap-in terminals, cigar socket and fuse holder on the front panel.

Dim: 9.25" w x 6" h x 9" d, 20.7 lbs. .... **\$219.99**

## MFJ LOW POWER TRANSCEIVERS



Single Band CW

Single Band SSB

## SINGLE BAND CW

Easy operation, set up in seconds to enjoy CW DXing or rag chewing wherever you go. Hot superhet receiver with super-quiet FET post amp stage in the IF filter for great sensitivity. Excellent selectivity from the tight CW bandwidth crystal ladder filter that fights QRM and noise. Smooth and stable VFO with reduction drive and RTT. Full 5W power output. Semi-QSK operation with adjustable hold T/R switching or set for full QSK. Built-in 3 inch. speaker. Low power drain, only 50mA on RX and 1.2A peak on TX. Dim: 2.5" h x 6.5" w x 6" d; 2 lbs.

### Four different models:

**9015** - 15M, SW .... **\$199.99** **9030** - 30M, SW .... **\$199.99**  
**9020** - 20M, SW .... **\$199.99** **9040** - 40M, SW .... **\$199.99**

## SINGLE BAND SSB

Easy operation, reduction drive analog VFO allows tuning the band for signals quickly, then zeroing in smoothly. Features Constant Current™ syllabic speech processing for an added 4-dB advantage to cut through conditions. Low noise preamp and active double balanced mixer front end with a sharp 2.3 kHz SSB crystal ladder filter. Draws only 3 Amps from 12V supply or battery. TVI protection with a built-in lowpass filter; Real S-meter; Hand Microphone; Amplifier key jack. Dim: 2.5" h x 6.5" w x 6" d; 2 lbs.

### Six different models:

**9402X** 2M, 7W .... **\$279.99** **9420X** 20M, 20W.. **\$259.99**  
**9406X** 6M, 10W.. **\$279.99** **9440X** 40M, 12W.. **\$259.99**  
**9410X** 10M, 20W . **\$269.99** **9475X** 75M, 12W. **\$259.99**

See Page 17 in the Price Guide under MFJ for available accessories for these models



# The World is Yours with **ALINCO**

## DR-135T/TP MKIII (2m), DR-435T MKIII (440 MHz), DR-235T MKIII (222 MHz) Mobile/Base

DR-135 includes AM Airband RX. All models have 100 memories, ignition key on/off, theft alarm, large 7 character alpha display, optional internal TNC can be used for packet or APRS™, 9600 packet mode, front data/GPS input, rear DSUB9 connector, H/M/L power out, autodialer, CTCSS and DCS encode+decode, backlit mic, *Extra rugged!* Accepts optional digital voice communications board.



## DJ-596T MKII 2m+440 HT

100 memories, alpha channel labels, NiMH battery, CTCSS and DCS encode+decode, WFM+NFM, theft alarm, 6 ~ 16 VDC input, illuminated keys and display, autodialer, full coverage of both bands, Expanded receive; optional digital voice communications board and more! *Extend your abilities!*



## DJ-C7T 2m+ 440 "Pocket" HT

Meet the "new generation" mini-HT! Internal speaker with great audio, 200 memories, VFO, Memory & Scan modes, CTCSS encode+decode, AM airband RX, wideband FM broadcast, 300mw output, SMA antenna port, Lithium ion battery, cloning feature, split function and more! *Extremely versatile dual-band HT.*



## DM-330MVT Communications Grade Switching Power Supply

*Alinco's Experts have reinvented the power supply!* Extremely quiet with a patented noise shift circuit, but we'll be surprised if you ever need to use it. It's small, lightweight and powerful! 30A continuous, 32A peak output, but weighs less than 5 lbs. Variable output from 5 ~ 15 VDC, memory output setting, lighted V/A meter, front panel cigar (10A) and quick-connect (5A) terminals, rear panel high-current connections. Ripple less than 15 mV p-p. *Extra versatile, use for travel, station or test bench.*



## DJ-S45T 440 MHz "Micro" HT

*Tiny, but tough.* Rugged polycarbonate design resists impacts, dust & moisture. Features New Quick Repeater Access Mode, 100 memories; any mix of simplex or repeater channels, CTCSS encode and decode (separately programmable). Computer programmable with optional cable, free software at [www.alinco.com](http://www.alinco.com).



## DJ-V5TH, 2m/440 HT\*

Great 2m/440 TX & RX, extended RX range from 76 ~ 999 MHz, wide band FM, alpha display, 200 memories, CTCSS & DCS encode+decode, 5 watts output, compact size, 4 scan modes, split-band ops, auto-dialer, 13.8 VDC direct input. *Excellent performer!*



## DX-70TH (100w) HF+6m Mobile/Base/Portable

160 ~ 6m Amateur band TX in all modes, Extra coverage RX from 150 KHz ~ 30 MHz and 50 ~ 54 MHz. Remotable face, 100 memories, 2 VFOs, speech compressor, SSB, CW and AM narrow filters, fullbreak-in, multi-function control and MUCH more! *Optional accessories include EDX-2 wire antenna tuner & DM-330MVT power supply.*



## DJ-V17T 2M HT DJ-V27T 222 MHz HT DJ-V47T 440 MHz HT

*Great audio and high grade water-resistant design!* Full power HTs with large 40mm internal speaker, rugged polycarbonate body compatible to IPX7, 500mW max audio-output, over 200 memories, ergonomic design, ultra-flexible antenna with SMA connector, 39 CTCSS settings two-level split function, two-level attenuator, backlit alphanumeric display and special battery- drain function to help avoid battery memory-effect. Ni-MH standard; also uses optional Lithium-ion and NiMH battery packs or AA dry cell case. Perfect for outdoor activities.

*Rugged design resists moisture, dirt and dust!*



## DM-340MVT IC Regulated Power Supply

30A nominal, 35A peak output. Variable output 0 ~ 15 VDC, convenient front-panel connections includes high current terminals, cigar lighter (10A) and quick-connect (5A). Built-in circuit protection, convenient front-panel fuse.



**COMING SOON!**

**Fits in the palm  
of your hand.**

[www.ALINCO.com](http://www.ALINCO.com)

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ALL warranty claims and requests for repair/technical assistance for Alinco products should be sent to Ham Distributors regardless of contact information found on the warranty certificate packed with the product.



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# ALINCO

AMATEUR RADIO'S VALUE LEADER™



## LOW POWER 2M HANDHELD

**DJ-S11T** Miniature VHF HT - Covers 144-148 MHz transmit; 340mW output; 20 multi-function regular memories and 1 call memory; Tone encoder and decoder; Illuminated display; Pivoting antenna. Uses 3 "AA" alkaline or NiCad batteries; Comes with wrist strap, antenna and belt clip. Dim: 3.9"h x 2.2"w x 1"d; 6.5 oz ..... **\$89.99**

### Available Accessories:

EDC78 Wall charger (not alkaline), EDH18 12V/5.5V DC cigarette lighter plug, EME12 Headset/earphone/mic w/VOX, EME13 Headset/earbud/mic w/VOX, EME15 Ear-phone/mic w/VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic w/volume control, ESC27 Soft case



**DJ-496T** 440MHz FM HT Rugged polycarbonate design is resistant to rain, dirt and dust. TX: 420-450 MHz; RX: 420-474 MHz. 100 memories and three types of Scan functions (VFO, Memory, Tone) with timed and busy settings. Three different Tone Burst tones. Thirty-nine separately selectable CTCSS encode and decode tones, Tone Call and Bell (pager). Power Output: 2W with 6.0V external DC power source, approx. 1W with special order EBP-60 Li-Ion pack, approx. 0.5W with 2 Alkaline AA cells and

approx. 0.4W with 2 Ni-MH rechargeable AA cells. The low power TX position gives approx. 0.5W at 6.0Vdc and approx. 150mW at 2 AA Ni-MH cells. Back-lit, Easy-to-Read LCD display. Computer-programmable with free software downloadable from Alinco website (with optional ERW-4 or ERW-7 cable). Includes belt clip, handstrap, AA battery case and flexible SMA antenna.

Dim: 2.24"w x 3.86"h x 1.17"d; 5.7 oz .... **\$139.99**

### Available Accessories:

EME6 Earphone, ERW4 PC Cable, ERW7 USB PC cable, ESC40 Soft case



## DUAL BAND HANDHELDS

**DJ-C7T** Credit Card Size VHF/UHF Dual Band Micro Handheld TX/RX: 144-147.995, 430-449.995 MHz. RX: FM broadcast (87.5-107.995 MHz), AM aircraft (108-173.995) and 380-511.995 MHz. AM/FM/WFM modes. Power: 300mW with supplied 3.7V Lithium ion battery or 500mW with external 6V power source. 200 memory channels; 5 pairs of program scan band; Priority watch; 3 types

of scan including CTCSS tone search; Split-operation; CTCSS encode and decode; TSQ and 4 European burst tones standard; Internal speaker, SMA antenna port; Mic/earphone/DC jacks; Cable cloning; Battery saver.

Dim: 2.3"w x 3.8"h x 0.57"d; 3.6 oz ..... **\$189.99**

### Available Accessories:

EBP58N Lithium-ion battery, EDH32 Cigarette lighter cable, EME18 Earphone, EME24 Earphone/microphone, EME25 Curl cord earphone, EMS60 Speaker/microphone, ERW4 PC cable, ERW7 USB PC cable, ESC38 Soft case

## SINGLE BAND HANDHELDS



**DJ-V17T** 5W 2M Handheld - Covers 144-148 MHz with 130-173.995 receive and 200 memories. Ruggedly built to IPX7 standards (can be submerged in 3 ft. depth of water for up to 30 minutes). 5W output; backlit alphanumeric display and direct keypad frequency entry; 39 Tone CTCSS Squelch; 104 Tone Digital Code Squelch (DCS); 4 Tone Bursts; 9 DTMF Autodial Memories; Scanning; Time-out Timer. Tuning steps: 5, 10, 12.5, 15, 20, 25 and 30 kHz. A 500mW audio amp provides abundant audio. Comes with AC charger adapter, Ni-MH battery

and SMA flexible antenna, belt clip and hand strap. Dim: 2.28"w x 4.33"h x 1.43"d, 9.9 oz.... **\$149.99**

**DJ-V27T** 5W 220 MHz Handheld - Similar to the DJ-V17T above, but covers 222-224.995 MHz with 216-249.995 MHz receive. Power: 5W .... **\$179.99**

**DJ-V47T** 4.5W 440 MHz Handheld - Similar to the DJ-V17T above, but covers 430-449.995 MHz with 410-470 MHz receive. Power: 4.5W **\$169.99**

### Available Accessories:

EBP63 7.4V 1100mAh Li-Ion battery, EBP64 7.4V 1600mAh Li-Ion battery, EBP65 7.2V 700mAh NiMH battery, EBP66 7.2V 2000mAh NiMH battery, EDC144 Rapid charger, EDC36 Angle plug power cable with filter, EDC37 DC cable, EDH34 Dry cell case, EDS10 Mic/speaker cable, EDS11 Clone cable, EMS62 Speaker/mic, ERW4 PC cable (requires EDS10), ERW7 USB PC cable, ESC41 Soft case

## SINGLE & DUAL BAND HANDHELDS



DJ-596T MK II

**DJ-496T** 440 MHz FM HT - Covers 430-450 MHz transmit and receive. 5W output; 40 multi-function memory channels; MARS/ CAP capability; Alphanumeric display; CTCSS encode and decode and DCS; S-meter; Autodialer; Computer programmable, Cable cloning capability; Back lit keypad. Dim: 4.9"h x 2.2"w x 1.6"d; 13.2 oz ..... **\$169.99**

**DJ-596T MK II** 2M/440 MHz Dual Band HT Covers 144-148/420-450MHz transmit and 136-174/400-512 MHz receive. 5W output on both bands with standard NiMH battery; Wide or narrow FM; Digital voice optional; CTCSS/DCS encode and decode; Three scan modes; Illuminated keys and display; 100 alpha memories and 9 autodial memories; Operates on 6-16VDC, battery charges while on ext. source ..... **\$239.99**

### Available Accessories:

EBP50N 9.6V 700mA 5W NiMH battery, EBP51N 9.6V 1500mA 5W NiMH battery, EBP56N 7.4V 1000mAh lith-ion battery, EDC111 Charger for EBP56N, EDC133 NiMH quick charger, EDC36 Angle plug power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC88 Rapid charger, EDC93 Wall charger with power supply, EDH30 Dry cell battery case, EJ47U Digital board (DJ-596TMKII only), EME12 Headset/earphone/mic with VOX, EME13 Headset/earbud/mic with VOX, EME15 Earphone/mic with VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic with volume control, ERW4 PC cable, ERW7 USB PC cable, ESC36 Soft case for EBP48N, SW596 Windows programming software (DJ-596TMKII only)



**DJ-V5TH** VHF/UHF Dual Band FM HT Full 2 meter and 440 Amateur band coverage. Standard high-power 700 mAh NiCad battery pack up to 5W output; 3 output settings; Expandable receive range 76-999 MHz (cellular blocked); Split-band operation capability; Eight different tuning steps; Alpha-numeric display - up to 6 characters; 200 memory channels plus two call channels; CTCSS encode and decode; DTMF squelch; 4 different European tone bursts; 4 scan modes

and 5 programmable scan banks; Auto-dial memories; SMA connector; Wire cloning capable; Accepts up to 13.8V DC input.

Dim: 4.5"h x 2.25"w x 1.75"d; 13 oz..... **\$239.99**

### Available Accessories:

EBP46N 9.6V 600mAh 5W NiCad battery, EDC36 Angle plug power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDH29 Dry cell battery case, EME12 Headset/earphone/microphone with VOX, EME13 Headset/ear bud/microphone with VOX, EME15 Earphone/microphone with VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic with volume control, ESC35 Soft case for EBP45N/46N

**Gift Certificates**  
available from all  
AES locations...

even online!



# ICOM® HF BASE STATION



**IC-718 HF All Band Transceiver** – Perfect for beginners or backup rig. Covers 160–10M with 0.03–30 MHz RX in SSB, CW, RTTY and AM modes. 100W (40W AM); 101 memories; Multiple scan functions; Front mounted speaker; IF shift; Mic compressor; RF gain control; Noise blanker; RF attenuator and preamp; Auto notch; Electronic keyer; VOX; Digital S/R/F meter; High frequency stability; Flexible filter selection; Hand mic. included; 13.8VDC @ 20A.

Dim: 9.4" w x 3.75" h x 9.4" d; 8.5 lb. **CALL / WEB**  
Available Accessories:

BET 706TUNECONT Better RF tune control IC706/718, AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, AT180 HF+6M auto coax antenna tuner, CR338 High stability crystal, CT17 Level converter, FL222 1.9 kHz 455 kHz IF SSB filter, FL257 3.3 kHz 455 kHz IF SSB filter, FL52A 500 Hz 455 kHz IF CW filter, FL53A 250 Hz 455 kHz IF CW filter, MB23 Carrying handle, MB5 Mobile mount, OPC025D DC cable, OPC598 23' extension cable (AT180), OPC599 7+8-pin-13-pin adapter, PS125 25A switching supply, SM20 Stand mic for base station, SP20 Speaker with audio filters, SP23 Speaker with audio filters, SP5 Mobile Speaker, UT102 Voice synthesizer, W4R OBF703718DIY CW & SSB Collins Filters

## HF/6M/2M BASE STATION



**IC-746PRO HF/VHF All Mode Transceiver** Covers 160–10M + 6M + 2M with 0.03–60 MHz, and 108–174 MHz RX. 100W output all bands; 32-bit floating DSP and 24-bit AD/DA converter; AGC loop management; IF filter width and shape variable; All mode signal modulation/demodulation; RTTY demodulator and decoder; Digital twin PBT capability; 100 memories (10 "memo pad"); PSK-31; Built-in HF-6M automatic antenna tuner; Two antenna connectors for HF/6M; IF-DSP noise reduction, auto notch and selectable audio peak filters; Noise blanker; Spectrum scope; Twin passband tuning; Triple band stacking register; Two-step preamp; RF speech compressor; Tone squelch/scan; VOX; SmartTune™ variable speed tuning; Auto repeater offset; CW pitch control; QSO serial number generator; Transmit audio monitor; Up/down frequency mic; Requires 13.8V DC @ 20A.

Dim: 11.3" w x 4.7" h x 12.5" d; 19.6 lbs.

**PS-125 Included with purchase ..... CALL / WEB**  
Available Accessories:

BET IMATE Better RF accessory, AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, CR338 High stability crystal unit, CT17 Level converter, HM36 Scanning hand mic, OPC025D DC cable, PS125 25A switching power supply, SM20 Stand mic for base station, SP20 Speaker with audio filters, SP23 Speaker with audio filters, UT102 Voice synthesizer, NIF MMIC746PRO Nifty Mini Manual

Please call/web for current price & promotions.

## HF/6M BASE STATION



**IC-756PRO III HF/50 MHz All Mode Transceiver** Retains many of the popular PROII features, including: 32 bit floating DSP with 24-bit AD/DA converter; 51 types of settable pass bandwidths; Soft and sharp filter shapes to suit operation or band condition; RTTY demodulator/decoder; AGC loop management; Real time spectrum scope, and 5 in. color TFT display. New features and performance improvements include: Improved 3rd order intercept point of +30dBm; 5 MHz band standard (USA version); Same "Mini-scope" function adopted from the IC-7800; SSB transmit bandwidth which can be adjusted for both high and low band; Improved BPF and 1st filter reduces distortion; Pre-amp changed to a noiseless feedback type to reduce 2nd order distortion; Saturation characteristics of mixer and surrounding circuits improved; Clock function displaying local time, UTC time, etc.; Screensaver. Dim: 13.3" w x 4.3" h x 11.2" d; 21 lbs.... **\$3189.99**

### Available Accessories:

BET IMATE Better RF accessory, AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, CT17 Level converter, HM36 Scanning hand mic, OPC025D DC cable, PS125 25A switching power supply, SM20 Stand mic for base station, SP20 Speaker with audio filters, SP23 Speaker with audio filters, UT-102 Voice Synthesizer, NIF MMIC756PRO3 Nifty Mini Manual

## HIGH-END HF/6M BASE STATIONS



**IC-7700 HF/50 MHz Transceiver** – Top-performance, closely related to the IC-7800. Designed to be the Ultimate Contest Transceiver, employing the latest technology for the competitive edge. Two independent IC-7800-type DSP units: one for the transmitter and receiver and one for the spectrum display. Uses a single HF receiver with I/Q second mixer, offering a +40dBm 3rd-order intercept point, ultra-wide dynamic range and selectable 15, 6 and 3 kHz roofing filters. Automatic tracking preselector and relay-switched front end for strong-signal HF performance and out-of-band interference rejection. Push-pull MOS-FET amplifiers work at 48VDC, providing 200W output at full duty cycle. Built-in switch-mode power supply. The 7 inch wide color TFT LCD, 800 x 480 display shows a multi-function spectrum scope and a simulated analog multi-function meter. VGA socket for external video monitor. A built-in RTTY/PSK31 modem provides a complete digimode terminal, requiring only an external keyboard. Rear-panel I/O connections and CI-V allow use of a second Icom transceiver. Digital voice recorder. DSP noise blanker. USB memory drive socket.

Dim: 16.7" w x 5.9" h x 17.1" d; 52.9 lbs.... **\$6999.99**

### Available Accessories:

BET IMATE Better RF message accessory, CT17 Level converter, HM36 Scanning hand mic, SM20 Stand mic for base station, SP20 Speaker with audio filters, SP23 Speaker with audio filters



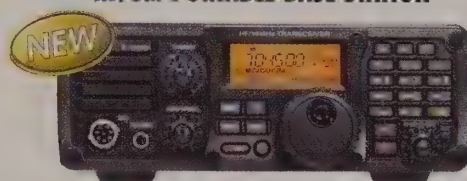
**IC-7800 HF/50 MHz Transceiver** – The Icom flagship radio with cutting-edge digital technology. The result, astonishing 110dB dynamic range, +40dB 3rd order intercept point in HF, and other features like a double conversion superheterodyne system, mechanical relay BPF switching & three roofing filters. 1.8 to 29.7 + 50 to 54 MHz TX, 0.03 - 60 MHz general RX; USB, LSB, CW, RTTY, PSK-31, AM, FM, SSB DATA modes; SSB/CW synchronous tuning; 101 memories, 10-character comment; Ultra high stability oven control crystal oscillator; Main and SUB receiver, Dual watch; RIT and ATX; Separate 50 MHz preamp and mixer; 5-200W (5-50W AM) output; Built-in supply (85–265VAC) and high-speed HF/50 MHz automatic antenna tuner; Voice synthesizer; Four 32-bit, floating point, DSP units and 24-bit AD/DA converters; Digital RF speech compressor; Mic. equalizer; Triple band stacking register; Digital twin passband tuning; 16-step variable DSP noise reduction; Variable noise blanker; 7" color TFT LCD (spectrum scope 5-meter, and RTTY/PSK-31 decode messages); RTTY/PSK-31 without PC connection; Digital voice recorder (200 second RX memory, 99 second TX); CF memory card for setting storage; Multi-function, fully adjustable, electronic memory keyer; Double key jack system; Full break-in; 50 CTCSS tone encode/decode; UTC/local clock and timer function; Optical digital in/output; CI-V interface capability; BNC-type transverter connector; External VGA display connector; Four antenna connectors; Includes 64MB CF memory card, spare fuses, key and pin plugs, rack mount handles, AC cable, speaker plugs, ACC plugs, power plug.

Dim: 16.6" w x 5.9" h x 17.1" d; 55 lbs. **\$10999.99**

### Available Accessories:

BET IMATE Better RF message accessory, CT17 Level converter, HM36 Scanning hand mic, SM20 Stand mic, SP20 Speaker with audio filters, SP23 Speaker with audio filters

## HF/6M PORTABLE BASE STATION



**IC-7200 HF/50MHz Transceiver** – Rugged design for outdoor use. Provides 2-100W output (SSB, CW, RTTY) and 1-40W (AM). Features: Easy-to-use controls; IF DSP filtering (51 passband widths); Digital IF filter, twin passband tuning (PBT), noise reduction, noise blanker and RF speech compressor. Manual notch filter; Keypad entry; Dual VFOs; Large display; Voice synthesizer; 201 memories; 20 dB attenuator; RIT; VOX; Scanning. USB port for PC control. Not totally waterproof, but front panel buttons & knobs are protected against water intrusion. Dim: 9.5" w x 3.3" h x 11" d; 12.1 lbs .... **\$1099.99**

### Available Accessories:

AH2B Mobile antenna, AH4 Automatic antenna tuner, AT180 HF/ 6M Automatic antenna tuner, CT17 CI-V Level converter, MB116 Front panel handles, MB117 Carry handle, MB118 Mobile mounting bracket, OPC1457 Extra DC cable, OPC598 23' extension cable for AT-180, OPC599 7/8 to 13 Pin cable adapter, PS125 Power supply, SM20 Stand mic for base station, SP10 Slim-line ext. speaker, SP20 Speaker with audio filters, SP23 Speaker with audio filters



## HF/6M QRP RADIO



**IC-703 PLUS** HF QRP Transceiver – For home, shack, mobile DXing and in the field. Covers 160-10M + 6M in SSB/CW/RTTY/AM/FM modes. Power: 10W @ 13.8VDC and 5W @ 9.6VDC. Similar to the IC-706 series, but HF + 6M without 2M/440 MHz. Built-in, relay-type automatic HF antenna tuner; 105 memories; Memory keyer; Large capacity external battery pack and antenna options.

Dim: 6.5" w x 2.2" h x 7.875" d; 4.4 lbs .... **\$764.99**

### Available Accessories:

AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, AH703 40/20/15/10/6 20W 4.6' antenna, BC155A Battery charger/BP228, BP228 9.6V 2800mAh external NiCad, CT17 Level converter, FL222 1.9kHz 455kHz IF SSB filter, FL257 3.3kHz 455kHz IF SSB filter, FL52A 500Hz 455kHz IF CW filter, FL53A 250Hz 455kHz IF CW filter, HM154T TTP mic, LC156 Back pack carrying case, MB62 Mounting bracket for main unit, MB63 Mounting bracket for control panel, MB65 Mtg base platform, MB72 Carrying handle, OPC1229 Extra DC cord, OPC1248 IC703 to PS125 cable, OPC581 11.5' separation cable, OPC587 16' separation cable, OPC589 8-pin mic jack adapter cable, OPC599 7+8-pin-13-pin adapter, OPC742 13-pin cable, RMK706 Remote mtg kit, SM20 Stand mic for base station, SP10 Slim-line ext. spkr, UT102 Voice synthesizer

## HF/VHF/UHF MOBILES



**IC-706 MK II-G** Compact HF/VHF/UHF All Mode – Covers 160–10M + 6M, 2M and 70cm; with broadband 0.03–200 MHz receive including AM/FM broadcast bands. 107 alphanumeric memories; Power: 100W (40W AM) on 160–6M, 50W (40W AM) on 2M, 20W (8W AM) on 70cm. RTTY; PSK31; Speech compressor; Detachable control panel; 2 filter slots; AF-DSP; Tone encode, tone scan and tone squelch; Cross band split; Noise blanker; IF shift; Preamp/attenuator; CW keyer and pitch control with reverse; Break-in; VOX; Bandscope; SWR graphic sweep; One-button duplex and automatic repeater offset; 13.8V DC @ 20A.

Dim: 6.6" w x 2.3" h x 7.9" d; 5.5 lbs.

**RMK-706 Included with purchase ... CALL / WEB**

### Available Accessories:

BET 706TUNECONT Better RF IC706 tune control, AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, AT180 HF+6M auto coax antenna tuner, CR282 Stability crystal, CT17 Level converter, FL100 500 Hz 9 MHz IF CW filter, FL101 250 Hz 9 MHz IF CW filter, FL103 2.8 kHz 9 MHz IF SSB filter, FL223 1.9 kHz 9 MHz IF SSB filter, FL232 350 Hz 9 MHz IF CW/RTTY filter, HM154T TTP microphone, LC156 Back pack carrying case, MB62 Mounting bracket for main unit, MB63 Mounting bracket for control panel, MB65 Mounting base platform, MB72 Carrying handle, OPC025D DC cord, OPC581 11.5' separation cable, OPC587 16' separation cable, OPC589 8-pin mic jack adapter cable, OPC598 23' extension cable for AT180, OPC599 7+8-pin-13-pin adapter, OPC742 13-pin cable, PS125 25A switching power supply, RMK706 Remote mounting kit, SM20 Stand mic for base station, SP10 Slim-line external speaker, UT102 Voice synthesizer, NIF MMIC706MKIIG Nifty mini manual, W4R ANTBOSSII W4RT Interface, W4R OBPUNIV Speech compressor

ICOM®



**IC-7000** All band Multimode Mobile Transceiver Covers HF/6M/2M/440 MHz with .03-199 MHz RX; 503 alpha memories; Power: 100W (HF+6M), 50W (2M), 35W (440 MHz). 41 bandwidths standard with sharp or soft filter shape. The variable twin PBT allows you to narrow the IF passband, or shift the entire passband to eliminate QRM. 2.5 inch (diagonal) color TFT screen. Supports a two-mode band scope; An internal memory keyer provides four memories; Detachable control head (requires optional separation cable); 503 memories; Digital RF Speech Processor; S/PWR/SWR meter; RIT; Preamp and Attenuator; RTTY Demodulator; Adjustable SSB bandwidth; DTMF memory; VOX, Full break-in CW with adjustable pitch. Comes with backlit remote mic, spare fuses, key plug and DC power cable. 13.8VDC @ 22A. Dim: 6.56" w x 2.59" h x 7.09" d; 5.1b ..... **RMK-7000 Included \$1599.99**

### Available Accessories:

BET 7000SCDRCONT Better RF IC7000 screwdriver antenna controller, BET 7000TUNECONT Better RF IC7000 tune control, AH2B 40-6M whip with mount (use tuner), AH4 80-6M 120W auto wire antenna tuner, AT180 HF-6M auto coax antenna tuner, CT17 Level converter, HM154T TTP Mic., LC156 Back pack carrying case. MB105 Remote head bracket, MB106 Carry handle, MB62 Main unit mounting bracket, MB65 Mounting base, OPC1443 11.5' remote cable, OPC1444 16' remote cable, OPC1457 DC cable, OPC589 8-pin mic jack adapter cable, OPC598 23' extension cable; AT180, OPC599 7+8-pin to 13-pin adapter, OPC742 13-Pin cable, RMK7000 Remote mounting package (MB62/MB105/ OPC1443), SM20 Desk mic. (OPC-589 required), SP10 Slim-line external speaker, NIF MMIC7000 Nifty mini manual, W4R ANTBOSSII W4RT Interface, RTS WCS7000 Programming software & serial cable (For USB add RTS RTS03 Serial to USB cable)

## VHF/UHF DUAL BAND BASE STATION



**IC-910H** VHF/UHF All-Mode – With the optional 1200 MHz module installed, it becomes an SSB/CW/FM tribander. Covers 144-148, 430-450 and 1240-1300 MHz (optional). Output: 5-100W (2M), 5-75W (440 MHz), 10W (1.2 GHz optional); Memories: 99 regular, 1 Call, 6 Scan edges (per band) and 10 Satellite; Large 3.5 in. multi-function LCD display, 10-key direct frequency entry keypad; Satellite mode support; Simultaneously works 2 bands in receive and full duplex; CW full support; Versatile scanning functions; Memory pad; 50 tone CTCSS encode; Speech compressor; One-touch & Auto repeater offset; IF shift; VOX; 13.8V DC @ 23A. Dim: 9.5" w x 3.6" h x 9.4" d; 10 lbs ..... **\$1399.99**

### Available Accessories:

AG25 2M mast mount preamp, AG35 430 mast mount preamp, CR293 High stability crystal unit, CT17 Level converter, FL132 500 Hz main receiver CW filter, FL133 500 Hz sub-band receiver CW filter, MB23 Carrying handle, MB5 Mobile mount, PS125 25A switching power supply, SM20 Stand mic for base stations, SP10 Slim-line external speaker, UT102 Voice synth., UT106 DSP unit, UX910 10W 1.2 GHz module

## SINGLE BAND MOBILE



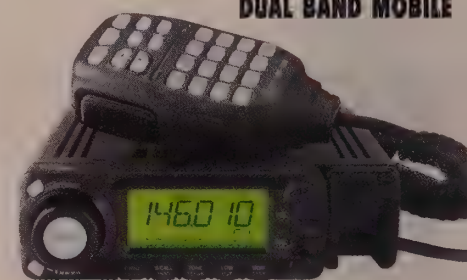
**IC-V8000** 2M FM Transceiver – Big 75W power output. Covers 144–148 transmit with 136-174 MHz receive. 207 alpha memory channels including one call and six scan edge channels; Weather alert and weather channel scan; DMS scan system; Priority watch; CTCSS/DTCS; Dynamic Memory Scan (customize/manage memory banks); DTMF encode and pager function capability; 10 DTMF memory channels stores DTMF codes with up to 24 digits; Versatile cloning from transceiver to transceiver or PC to transceiver; Front mounted speaker; One-piece, die-cast, rugged, aluminum chassis; Selectable Green or Amber display; Includes remote control microphone.

Dim: 5.9" w x 2" h x 5.9" d; 2.22 lbs ..... **\$239.99**

### Available Accessories:

CSV8000 Windows software, OPC1132 9.8' DC cable, OPC347 23' DC cable, OPC440 16.4' mic extension cable, OPC441 16.4' Speaker Extension Cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, SP10 Slim-line external speaker, UT108 DTMF decoder unit, V8000MMB Mobile bracket, NIF QRICV8000 Nifty quick reference card, RTS WCSV8000 Programming software & serial cable (For USB add RTS RTS03 Serial to USB cable)

## DUAL BAND MOBILE



**IC-208H** 2M/440 Dualband Mobile – Covers 144-148 and 430-450 TX with 118-173, 230-549, 810-999 MHz (cell blocked) wide band RX. Power: 55/50W (2M/440); Weather channel and alert; 500 6-character alpha memory channels; Improved Dynamic Memory Scan (10 banks), 2–100 channels per bank; New bank listing allows selection of banks you want to scan; Built-in CTCSS/DTCS tone squelch; Operate with control head attached or remote mounted with included 11.5 ft. separation cable; Pocket beep and tone scan; 16 DTMF memories; 9600bps data connector; Auto repeater function; Multicolor display lighting and backlit buttons; Remote control mic. included.

Dim: 5.56" w x 1.56" h x 7.31" d; 2.65 lbs. **\$329.99**

### Available Accessories:

CS208 Windows cloning software, MB28H Mobile bracket, MB58 Remote controller bracket, MB65 Mounting base platform, OPC1132 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 16.4' Speaker Extension Cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, OPC601R 23' separation kit, SP10 Slim-line external speaker, NIF QRIC208H Nifty quick reference card, RTS WCS208 RT Systems programming software & serial cable (For USB add RTS RTS03 Serial to USB cable)

Please call/web for current price & promotions.





## ICOM® SINGLE BAND MOBILE

**IC-2200H** 2M FM Transceiver with D-Star Capability – A rugged design with a large selectable Amber or Green LCD display with four levels of brightness, backlit keys and large oversized tuning dial. Covers: 144-148 MHz transmit with 118-174 MHz receive (includes AM aircraft band and Weather channel with Alert). Power levels: 65, 25, 10 or 5W; Choice of FM/Narrow mode; 207 alpha memories (six scan edges, one CALL channel); Dynamic Memory Scan; 50 CTCSS and 104 x 2 DTCSS encode/decode plus tone scan functions and "pocket beep"; 24 DTMF autodial memories; Squelch delay; NMEA GPS compatible (GPS not supplied). Includes remote control mic, DC power cable, mobile mounting bracket and mic hanger. Dim: 5.5" w x 1.56" h x 5.25" d; 2.75 lbs.. **\$169.99**

### Available Accessories:

CS2200H Windows™ software, MB28H Mobile bracket, OPC1132 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 16.4' Speaker Ext. Cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, SP10 Slim-line external speaker, UT108 DTMF decoder unit, UT118 D-Star Digital unit, NIF QRIC2200H Nifty quick reference card, RTS WCS2200 RT Systems programming software & serial cable (For USB add RTS RTS03 Serial to USB cable)

## DUAL BAND MOBILE



**IC-2820H** 2M/440 Analog Dual Bander with D-Star and GPS Capability – Covers 144-148 and 430-450 MHz with wideband receive (Left Band) 118-549.95 / (Right Band) 118-173.995, 375-549.995 and 810-990.990 MHz (cellular blocked). V/V and U/U simultaneous receive, 522 memory channels. Weather Alert. Power: 50/15/5W out on both bands. Removable front panel, built-in CTCSS Encode/Decode, selectable amber/green display, PC compatibility. Two antenna jacks support diversity reception in the 127, 136, 146, 375, 440 and 500 MHz bands (two antennas required). Diversity compares signal strength from the two antennas, and automatically selects the strongest signal to hear. D-STAR upgradable and DV (digital voice) with the optional UT-123. Packet ready (9600 BPS – 6-pin DIN). Includes the full-function backlit HM-133 remote DTMF hand microphone, mounting bracket, power cord and spare fuses. Supplied with separation cables. Dim: 5.9" w x 1.65" h x 7.4" d, 3.3 lbs..... **\$649.99**

### Available Accessories

CS2820 Windows cloning software, MB65 Mounting base, OPC1132 9.8' DC cable, OPC1529R Data communications cable, OPC347 23' DC cable, OPC440 16.4' Microphone extension cable, OPC441 16.4' Speaker ext. cable, OPC474 Radio to radio clone cable, OPC478 PC RS-232 cable, OPC478U PC USB cable, OPC589 8-PIN mic. jack adapter cable, SP10 Slim-line external speaker, UT123 D-Star DV & GPS receiver, NIF MMIC2820H Nifty mini manual, RTS WCS2820 Programming software & serial cable (For USB add RTS RTS03 Serial to USB cable)

## ANALOG & D-STAR DUAL BAND MOBILE

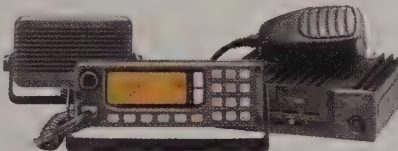


**ID-800** 2M/440 Dual Bander FM & D-Star Ready Features D-Star Digital Voice Capability and supports 20 character short text messaging with an on screen display. Detachable control head with separation cable; wideband receive; Three power settings: 55/15/5W (2 meters), 50/15/5W (440 MHz); Built-in CTCSS decode/encode with tone scan; PC compatible, 9600 BPS packet ready; 500 alpha memories, 16 DTMF memories ..... **\$639.99**

### Available Accessories:

CSD800 Cloning software, MB28H Mobile bracket, OPC1132 9.8' DC cable, OPC1384 RS232 C data cable, OPC347 23' DC cable, OPC440 16.4' mic. extension cable, OPC441 16.4' speaker extension cable, OPC478 PC RS232C cable, OPC478U PC USB cable, OPC601R 23' separation cable, SP10 Slim-line ext. speaker

## 1.2 GHZ D-STAR RADIO



### ID-1 10W 1.2 GHz FM & D-Star Transceiver

Its operating frequency range is 1240-1300 MHz with FM and GMSK (digital) modulation formats. Includes alphanumeric memories, CTCSS encode/decode and scanning, Full PC control via USB port and supports 10 BASE-T ethernet for 128K data operation ..... **\$999.99**

### Available Accessories

MB28H Mobile bracket, OPC1132 9.8' DC cable, OPC347 23' DC cable, OPC440 16.4' mic. extension cable, OPC441 16.4' Speaker extension cable, SP10 Slim-line external speaker

## D-STAR DUAL BAND HT

**IC-92AD** Submersible FM & D-Star Dual Band HT Transmit Coverage: 144-148 and 420-450 MHz. Wideband Receive Coverage: (VFO-A) 0.495-823.990, 849-868.990 and 894-999.990 MHz; (VFO-B) 118-174 and 350-470 MHz. Cellular blocked. 1304 memory channels including 100 program scan and 4 call channels. Weather channel with weather alert. Dualwatch capability allows receive on two bands simultaneously (including the same band). 5 Watts output with four selectable power levels. When using the optional HM-175GPS GPS Speaker microphone, the IC-92AD shows the direction to a received D-STAR station or to a memory stored with a compass-like display pointer. The GPS-A mode assists in easy D-PRS system operation. Military tough, submersible to 1 meter for 30 minutes. Dim: 2.3" w x 4.4" h x 1.3" d, 0.7 lb..... **\$579.99**



### Available Accessories:

AD92SMA SMA – BNC adapter, BC177 Desk rapid charger, BP256 7.4V 1620mAh lith-ion, BP257 AA battery case, CP19R Cigarette cable with filter, HM131 Speaker/mic/earphone jack/clip, HM174 Waterproof Speaker/mic, HM175GPS Waterproof Mic/GPS unit, HM75A Remote control mic, HS85 Headset with VOX, LC168 Carrying case, OPC1797 Plug adapter cable, OPC254L Right angle mini, OPC474 Radio-to-radio clone cable, RS92 Remote control PC software (RS-232 cable), SP13 Earphone, NIF MMIC92AD Nifty mini manual & reference card combo

## SINGLE BAND HT



**IC-V82** 2M High Power HT with D-Star Capability – 7W output @ 7.2V DC; 6.0-10.3V DC input; 136-174 MHz RX; Optional UT-118 unit provides D-STAR format digital voice & slow data communication. Built in CTCSS/DTCS; Auto low power/power saver; 200 memories; Auto repeater function; PC cloning capability; NOAA WX channel RX (IC-V82 USA ver. only); 16 DTMF dial memory, Die cast aluminum frame and heat sink; 7.2V battery included. Dim: 2.1" w x 5.5" h x 1.4" d; 13.8 oz

**IC-U82** – Same as IC-V82, but TX: 420-450 MHz, RX: 400-479 MHz; 5W ..... each **\$139.99**

### Available Accessories

AD101 Battery adapter for BP211 and BC119N01, AD9411 Adapter cup for BC119N01, BC119N01 Desk charger, BC144N Rapid desk charger, BP208N Battery case, BP209N 7.2V 1100mAh 5.5W battery, BP210N 7.2V 1650mAh 5.5W battery, BP222N 7.2V 600mAh 5.5W battery, CSV82 cloning software, HM128L Rectangle plug earphone + mic, HM158L Rectangle speaker/mic/ear-jack/clip, HM46 Slim-line speaker, HM54 Heavy duty speaker, HM75A Remote control mic, HS85 Headset w/VOX, HS94 Earhook headset w/boom mic, MB103 Spring belt clip, MB86 Swivel belt clip, OPC474 Cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, SP13 Earphone, UT108 DTMF decoder unit, UT118 D-Star Digital unit, VS11 PTT/VOX unit

## DUAL BAND HT



**IC-91A** Dual Band HT with D-Star Capability – The "A" band (top) offers wide reception from 495 kHz to 999.990 MHz (excluding cellular) in FM/WFM/AM modes. The "B" band (bottom) receives from 118 - 174 MHz & 350 - 470 MHz in FM/FM-N/AM/ DV modes. Simultaneous receive of a combination of the "A" and "B" bands allows V/V, V/U and U/U operation. Alpha memories: 1304. Power: 5/0.5W on either band. Analog/Digital upgradable with optional UT-121 Digital Voice Unit. In DV mode, you can record 30 sec. of audio into memory. Plays a recorded message (up to 10 sec.) in response to a call directed to the user's callsign. Audio messages can even be forwarded. With an external NMEA 0183 format GPS attached (not supplied), your own and others' position information can be sent and received. JIS-4 specification for weather resistance. Includes SMA-type antenna, Li-Ion battery, belt clip & charger. Dim: 2.4" w x 4.2" h x 1.5" d; 10.6 oz..... **\$339.99**

**IC-91AD** D-Star Ready Dual Band HT – The IC-91A with UT-121 DV Unit installed..... **\$434.99**

**IC-91AD** D-Star Ready Dual Band HT – The IC-91A with UT-121 DV Unit installed..... **\$434.99**

**IC-91AD** D-Star Ready Dual Band HT – The IC-91A with UT-121 DV Unit installed..... **\$434.99**

### Available Accessories

AD92SMA SMA – BNC adapter, BC139 Desk rapid charger, BP216 AA battery case, BP217 7.4V 1300mAh lith-ion, CP19R Cigarette cable w/filter, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM75A Remote control mic, HS85 Headset with VOX, LC163 Carrying case, OPC1529R Data comm. cable, OPC474 Radio-to-radio clone cable, OPC782 Plug adapter cable, RS91 Remote control PC software w/RS-232 cable, SP13 Earphone, UT121 D-Star Digital unit for IC-91A, NIF MMIC91AD Nifty mini manual & reference card combo, RTS WCS91 RT Systems programming software & serial cable (For USB add RTS RTS03 Serial to USB cable)

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## ICOM® SINGLE BAND HTS

**IC-V8 SPORT** 2M FM HT  
None easier to use! Covers 144-148 MHz; 5.5W output; 100 easy to recall alphanumeric memories; Scans 40 channels per second; Personalized scanning ranges; Up/Down & Rotary controls; CTCSS/DTCS encode/decode; Tone scan; PC programmable to set-up parameters; Acoustical design for best audio; Full-sized input keypad; Durable polycarbonate front panel and aluminum die-cast chassis built to MIL specs. Comes with AA battery case.

Dim: 2.13" w x 5.2" h x 1.4" d; 12.3 oz. .... **\$99.99**

### Available Accessories

AD101 Battery adapter for BP211 and BC119N01, AD9411 Adapter cup for BC119N01, BC119N01 Desk charger, BC144N Rapid Desk Charger, BP208N Battery case, BP209N 7.2V 1100mAh 5.5W battery, BP210N 7.2V 1650mAh 5.5W battery, BP222N 7.2V 600mAh 5.5W battery, CP17L Right angle cigarette cable for charger, CSV8 Cloning software, HM128L Earphone + mic, HM158L Rectangular speaker/mic/earphone jack/clip, HM46L Slim-line speaker mic with right angle plug, HM54 Heavy-duty speaker mic, HM75A Remote control mic, HS51 Headset/VOX, HS94 Earpiece headset, LCF3GSWIVEL Leather case with swivel, MB103 Spring loaded belt clip for N-Series battery, MB74N Spring loaded belt clip, MB86 Swivel belt clip, OPC474 Radio-to-radio clone cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC515L Right angle DC cable for charger, SP13 Earphone, UT108 DTMF decode unit, VS1L Right angle VOX-PTT unit for HS94, NIF QRICV8 Nifty quick reference card



**IC-V85** 2M Handheld  
Covers 144-148 MHz with extended receive 136 to 174 MHz and up to 7W output. 107 memory channels including 6 scan edge and 1 CALL. Multiple scanning modes, 16 DTMF memory channels. Built-in CTCSS/DTCS Encode and Decode. Weather channel alert, backlit alphanumeric display, repeater lock-out, auto-repeater function, time-out timer and auto-power off. Easy-to-use ergonomic controls. Pager/DTMF decode function available with optional UT-108.

Dim: 2.2" w x 4.34" d x 1.35" d; 12.5 oz **\$199.99**

### Available Accessories

BP226 Battery case, BP227 7.2V 1700mAh lith-ion battery, CP19R Cigarette cable w/filter, CSV85 Cloning software, HM128L Right angle earphone & mic, HM158L Right angle speaker/mic/earphone/clip, HM75A Remote control mic, HS85 Headset w/VOX, HS94 Ear-piece headset, LC167 Carrying case, OPC474 Radio-to-radio clone cable, OPC478U PC USB cable, SP13 Earphone, UT108 DTMF decoder unit, VS1L Right angle VOX-PTT unit

Please call/web for current price & promotions.



## DUAL BAND HT

### IC-T7H SPORT

2M/440 MHz FM Dual Band HT - Comes with AA battery case that gives it 2W output. Up to 5W with optional 9.6V/650mAh battery or 6W with optional 13.5V DC power cable; TX: 144-148 MHz & 440-450 MHz; RX: 118-174 MHz & 400-470 MHz; One-touch band switching; Priority watch; 70 memories with 9 DTMF for auto dialing; CTCSS tone encode & decode; 50 independently programmable tone frequencies; Auto power save; Auto repeater function; Auto Off; Thumb-touch lock; Internal guide; Backlit LCD; PC Programmable.

Dim: 2.3" w x 4.8" h x 1.1" d; 14.3 oz. .... **\$174.99**

### Available Accessories

BC110A wall charger, BC119N11 NiCad/NiMH desk charger, BP170 Battery case, BP172 4.8V 950mAh battery, BP180 7.2V 600mAh battery, CP12 Cigarette cable with filter, CP12L Right angle cigarette cable with filter, CSWHH4 Windows software with cable, FA1443B 2M/440 duck, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM46 Slim-line speaker mic, HM54 Heavy-duty spkr mic, HM75A Remote control mic, HS10 Boom mic/headset, HS85 Headset with VOX, HS94 Earpiece headset, LC137 Case for T7H with BP173/180, NCPI Nylon chest pack, OPC254L Right angle mini DC power cable, OPC474 radio clone cable, OPC478 PC RS232C cable, SP13 Earphone, VS1 VOX-PTT unit for HS94



## DUAL BAND MICRO HT

### IC-P7A Dual Band Micro

HT - Covers 2M and 440 MHz FM. Power Output: 1.5W (2M) & 1.0W (440 MHz). Wideband receive from 495 kHz to 999.99 MHz (less cellular) in AM, FM and FM-W modes. Includes AM/FM/SW broadcasts and Weather Channels with Alert. Memories: 1,000 regular channels, 50 band scan edges and 200 auto memory write channels. The regular memory channels can be grouped into 18 banks of 100 channels.

Alphanumerics allow naming channels and banks with 6-digit letters and numbers and can display the channel and bank names for easy recognition. Multiple scanning types, CTCSS and DTCS tones for repeater operation, or tone squelch operation and pocket beep for quiet stand-by. Ergonomically designed and features the minimum number of buttons to provide quick and easy operation. Includes flexible SMA antenna, wrist strap, Li-ion battery pack, rapid 3-hour battery charger and AC adapter. Dim: 1.85" w x 3.1" h x 1.1" d; 5.64 oz. .... **\$239.99**

### Available Accessories

AD92SMA SMA - BNC adapter, BP243 3.7V 1800mAh Lith-ion Battery pack, CP21LR Cigarette cable with filter, CSP7 Windows cloning software, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, LC161 Carrying case, OPC474 Radio-to-radio clone cable, OPC478 PC RS232 serial cable, OPC478U PC USB serial cable, OPC782 Plug adapter cable, SP13 Earphone



## TRIBAND HT

**IC-T90A** 6M/2M/70cm FM Handheld - Palm-sized, simple to operate. Designed with a die-cast aluminum chassis. MOS-FET technology, along with a 7.4V Lithium-ion battery, produces a full 5W output. Wideband RX 495 kHz to 999.990 MHz (cell blocked), in AM, FM or WFM modes. Pre-programmed with TV frequencies. Unique WX Alert feature constantly checks local active weather station for alert

tone. If alert occurs, the HT automatically switches to the WX channel and beeps. 555 alphanumeric memories (500 regular, 50 scan edges, and 5 call channels). Dynamic Memory Scan (choose any of 500 memories to scan), and with soft partitioning, setting up a maximum of 18 banks. Over-sized buttons for easy operation. Optional PC software for memory, alphanumeric, scan list and parameter customizing.

Dim: 2.28" w x 3.44" h x 1.16" d; 8.5 oz. .... **\$274.99**

### Available Accessories

AD92SMA SMA - BNC adapter, BC139 Desk rapid charger, BP216 AA battery case, BP217 7.4V 1300mAh lith-ion, CP19R Cigarette cable with filter, CST90A Windows cloning software, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM46 Slim-line speaker mic, HM75A Remote control mic, HS85 Headset with VOX, HS94 Earpiece headset, LC152A Carrying case, MB83 Swivel belt clip, OPC474 Radio-to-radio clone cable, OPC478 PC RS232C cable, OPC478U PC USB cable, SP13 Earphone, VS1 VOX-PTT unit for HS94, NIF QRIC90A Nifty quick reference card, RTS WCST90 RT Systems programming software & serial cable (For USB add RTS RTS03 Serial to USB cable)

## ICOM HT ACCESSORIES



- HM-75A** - Remote control mic..... **\$77.99**
- HM-131** - Speaker/mic/earphone..... **\$42.99**
- HS-94** - Ear-piece headset..... **\$24.99**
- HM-128** - Earphone and microphone . **\$28.99**
- CP-12L** - Right angle cig. cable w/filter. **\$40.99**
- AD-92SMA** - SMA-BNC adapter ..... **\$18.99**

MORE ICOM HT ACCESSORIES  
ON PAGES 13 & 14 IN PRICE GUIDE

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TM-D710A

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## HF/6M RADIO



**TS-480HX** HF/6M All-Mode Transceiver Covers HF/6M, including 60M and receive from 500 kHz to 60 MHz. Power: Up to 200W output on HF (requires two 22A power supplies), 100W on 6M. AF DSP provides Digital noise limiter; Beat cancel; Noise Reduction; TX/RX EQ; AF filters; Transmit passband filter, Speech processor. Separate LCD control panel with speaker positions up to 13 ft. from main unit; Full range of CW features; Auto tune; Multiple scan functions; Keypad frequency entry; CTCSS; Wide/narrow deviation; 1750 Hz tone; Noise blanker; Optional IF filters available; PSK31 compatible; Packet cluster tune (with TM-D700A or TM-710A); PC-based control. Dim: 7.06" w x 2.38" h x 10.19" d; 7.05 lbs. (main unit), 7.06" w x 2.94" h x 1.44" d; 1.1 lbs. (control head) ..... **© \$1094.99**

**TS-480SAT** - 100W version of the HX. Includes built-in automatic antenna tuner..... **© \$989.99**

### Available Accessories

E30348905 6' DC cable, HS5 Deluxe headphones, HS6 Lightweight headphones, KPS15 23A switching power supply, MB480 Carry bracket w/handle, MC43S 8-pin hand mic, MC47 Multi function 8-pin hand mic, MC60A 8-pin amp desk mic, MC90 2-head DSP desk mic, MJ88 Modular/8-pin adapter, PG20 22' DC cable, PG4Z 13' panel extension kit, SO3 TCXO unit, SP23 Speaker, SP50B Mobile speaker, VGS1 Voice guide/storage unit, YF107C 500 Hz CW filter, YF107CN 270 Hz CW filter, YF107SN 1.8 kHz SSB filter

## HIGH END HF/VHF/UHF RADIO



**TS-2000** HF/VHF/UHF All Mode Transceiver Offers 3 platforms: (1) A traditional transceiver with full function front panel (TS-2000), (2) the high-tech looking "silver box" version with computer controlled software and no controls (TS-B2000), or (3) TS-2000 with 1.2 GHz (TS-2000X). 100W output (HF/6M/2M), 50W (70cm), 10W (optional 1.2 GHz). Dual RX; True IF/stage DSP on main band, AF stage DSP on sub-band; Digital filtering; Satellite ready, with transverter frequency display; Cross band repeat; Built-in auto tuner HF/6M; Built-in TNC and RS-232 for computer control; Built-in TCXO (.5PPM); CTCSS/DCS en/decode; Electronic memory keyer; Backlit front key panel; 5+1 antenna ports - 2 for HF and 6M, 1 each for 2M, 70cm and HF RX ..... **© \$1594.99**

**TS-B2000** HF/VHF/UHF All Mode Transceiver TS-2000 but does not have front panel controls or LCD display. Includes ARCP-2000 ... **© \$1399.99**

**TS-2000X** HF/VHF/UHF All Mode Transceiver TS-2000 w/1.2 GHz ..... **© \$2064.99**

### Available Accessories

ARCP2000 PC/radio control software (included with B2000 model), DRU3A Digital recording unit, HS5 Deluxe headphones, HS6 Lightweight headphones, KPS15 23A switching power supply, MB430 Mobile mounting bracket, MC43S 8-pin hand mic, MC57DM Lit TTP mic, MC60A 8-pin amp desk mic, MC90 2-head DSP desk mic, PG2Y 13' DC cable, PG2Z DC cable, RC2000 Remote face plate mobile kit, SP23 Speaker, VS3 Voice synthesizer, NIF MMTS2000/X Nifty mini manual

## SINGLE BAND MOBILE



**TM-271A** 2M FM Transceiver - Covers 144-148 MHz transmit with 136-174 MHz receive. N.O.A.A. Weather band reception with alert tone; FM Wide/Narrow; Power: 60W; 200 memories; MIL-STD compliant; High quality audio; Illuminated keys and a large LCD with adjustable Green backlighting; CTCSS, DCS and 1750 Hz tone burst; Auto repeater offset..... **\$169.99**

### Available Accessories:

MJ88 Modular/8-pin adapter, PG2N DC cable, PG5D PC interface cable, SP50B External mobile speaker, NIF QRTM271A Nifty quick reference card



**TM-V71A** 2M/440MHz Dual Bander - Covers 144-148 and 430-450 MHz with 118-524 and 800-1300 MHz receive (cell blocked). Dual Display with dimmer. Visual band scope. Weather alert and 1000 multi-function memory channels (10 memory scan banks) with alpha tags up to six characters. Call channel. Ten dedicated EchoLink® memory channels to communicate over the internet, using VoIP technology. Multiple scanning features. Power levels are 5/10/50W on both bands. Includes: Dual receive (V+V, U+U), scanning, weather alert, password and cross-band repeater operation. CTCSS, DCS and tone Burst encode/decode. PL Decode/Encode Automatic repeater offset. Large green or amber display. Digital voice recorder option. Data jack for external TNC. Dual audio outputs on rear panel. Compatible with ARRL TravelPlus® software. Includes: hand mic, DC power cable, fuse, main unit mounting bracket, microphone hanger. Free MCP-2A programming software is available for download at [www.kenwoodusa.com](http://www.kenwoodusa.com). Dim: 5.5" w x 1.7" h x 7.1" d; 3.3 lbs..... **\$399.99**

### Available Accessories

DFK3D Front panel kit, MJ88 Modular to 8 pin microphone plug adapter, PG2N Extra DC cable, PG5A Packet data cable, PG5F Extension cable kit, PG5G PC serial programming cable [DB9], PG5H PC interface cable kit, PG5J Interface kit for RCD710, RCD710 TNC/APRS control head, SP50B External mobile speaker, VGS1 Voice guide and storage unit, NIF MMTMV71A Nifty mini manual

## APRS TNC UPGRADE



**RC-D710** APRS TNC Upgrade - Upgrade your current Kenwood transceiver with APRS features similar to the TM-D710A. It can also replace the TM-V71A control panel to enable all TM-D710A features. Works with TM-V71A, TM-D710A, TM-D700A, TM-V708A, TM-G707A, TM-V7A, TM-733A, TM-255A & TM-455A..... **\$289.99**

# KENWOOD

## DUAL BAND MOBILE w/TNC



**TM-D710A** 144/440 MHz Dual Band Data Communicator - Many more features than its predecessor, the popular TM-D700A. Covers 144-148 and 430-450 MHz TX with 144-148 and 430-450 RX plus 118-524 MHz (Band A), 136-524 MHz (Band B) and 800-1300 MHz (less cellular). Dual receive, even on same band; NOAA weather alert; 1000 memory channels. Full 50W output on both VHF and UHF. MCP compatible with the ARRL TravelPlus® CD. Allows you to route your trip in the TravelPlus software, and it figures out all the repeaters that are on the route and imports the frequency, offset and PL tone into the TM-D710A. Key features include: internal clock for APRS® (Automatic Packet/position Reporting System) time and date stamp, APRS functions: Sort; Filter, QSY; Decay algorithm; Proportional pathing; Speed and altitude beaconing, Weather beaconing with Peet Brothers® and Davis® weather stations; Voice alert. EchoLink® ready with ten dedicated channels; Built-in sound card interface; NMEA 0183 GPS I/O port - can employed as part of Kenwood's *Skycommand System II+* when used with the TS-2000 series. Selectable orange or green screen background. Dim: (panel) 6.24" w x 2.81" h x 2.24" d, (body) 5.60" w x 1.76" h x 6.32" d; 3.3 lbs **\$599.99**

### Available Accessories

MJ88 Modular to 8 pin microphone plug adapter, PG2N Extra DC cable, PG5A Packet data cable, PG5F Extension cable kit, PG5G Programming interface kit, PG5H Computer interface kit, SP50B External mobile speaker, VGS1 Voice guide and storage unit, NIF MMTMD710A Nifty mini manual, PBS SCF00400 Peet Bros WX station interface cable

## PC INTERFACE CABLE FOR TM-V71A & TM-D710A



**PG-5H** Computer Interface Cable - Connects your Kenwood TM-V71A or TM-D710A to your Windows® based PC for multiple functions. Used primarily for EchoLink® allowing you to communicate with radio amateurs around the world on the Internet using VOIP (visit [www.echolink.org](http://www.echolink.org) for more info). Can also be used in place of the PG-5G programming cable for programming the radio's 1,000 memory channels using the free MCP-2A Memory Control software (download it from [www.kenwoodusa.com](http://www.kenwoodusa.com)). Also can be used with the ARRL TravelPlus® software to import Repeater information over a set route..... **\$59.99**

© Price after instant coupon, coupons may expire 10/31/08. Please call/web for current price and promotions.



# KENWOOD

## SINGLE BAND HANDHELD



**TH-K2AT** 2M FM HT  
5W RF output; 100 memories with 6-character names; Large LCD panel and backlit keys; Internal VOX; Weather alert and receive (US only); Automatic simplex checker; Auto repeater offset; Multiple scanning functions; Priority scan; Built-in 42-tone CTCSS and 104-code DCS; DTMF encode; Memory channel transfer; Time-out timer; Auto power off; Meets MIL-STD-810 standards for resistance to rain, vibration, shock & humidity; PC programming; Charges 3x faster than previous models with its high-capacity NiMH battery.  
Dim: 5" h x 2.4" w x 1.1" d; 12.5 oz..... **\$139.99**

### Available Accessories

**BT14** Six "AA" battery holder, **HMC3** VOX/boom mic headset, **KHS21** Boom mic headset, **KHS26** Lapel clip mic/earphone PC, **KSC24** Rapid charger, **PB43N** 7.2V 1100mAh NiMH battery, **PG2W** DC cable, **PG3J** Cigarette cord with filter, **PG4Y** 9 pin programming cable, **SC54** Soft case, **SMC32** Mini right angle speaker mic, **SMC33** Speaker mic with remote control, **SMC34** Speaker mic with volume function keys, **WR2** Water resistant bag

## TRI BAND HANDHELD



**TH-F6A** FM Tri Band HT  
Covers 144, 220 and 440 MHz plus wideband receive 0.1-1300 MHz (cellular blocked), includes AM Aircraft receive and weather. Dual channel receive capability; FM/FM-W/FM-N/AM plus SSB/CW receive modes; 435 memories (8 groups of 50 channels); 3 call channels plus 20 for programmable scan; 5W output with 7.4V lithium-ion battery; 16-key backlit pad plus multi-scroll key; Built-in charging circuitry, battery recharges while unit operates from a DC supply; Selectable squelch configuration; Memory shift; Key lock; Built-in CTCSS encode/decode (42 subtone frequencies) DCS (104 codes), 1750Hz tone burst; Compatible with external 1200/9600bps TNC; Large 8-character alphanumeric display; Automatic simplex checker; Wireless remote control function; ATT (attenuator) on/off; Battery indicator; Internal VOX; MCP programming software via [www.kenwood.net](http://www.kenwood.net) (using PG-4Y cable); Meets MIL-STD 810 C/D/E for resistance to vibration, shock and light rain. Comes with belt hook, SMA antenna, hand strap, PB-42L 7.4V 1550mAh lithium-ion battery pack, AC adapter.  
Dim: 3.4" h x 2.3" w x 1.2" d; 8.8 oz..... **\$329.99**

### Available Accessories

**BT13** AA battery case, **HMC3** VOX/boom mic headset, **KHS21** Boom mic headset, **KHS26** Lapel clip mic/earphone PC, **PB42L** 7.4V 1550mAh lith-ion battery, **PG2W** DC cable, **PG3J** Cigarette cord w/filter, **PG4Y** 9 pin programming cable, **SC51** Softcase with swivel belt clip, **SMC32** Mini right angle speaker mic, **SMC33** Speaker mic w/remote control, **SMC34** Speaker mic w/volume function keys, **WR2** Water resistant bag, **NIF QRTHF6A** Nifty quick reference cards

## KENWOOD ACCESSORIES FOR BASE, MOBILE AND HANDHELD RADIOS

### LOW-PASS FILTER



**LF-30A** Low-Pass Filter - Use with 160-10M transceivers to suppress TVI causing harmonics. Provides a 30 MHz cutoff and >90dB attenuation from 90-300 MHz. Power rating: 1000W SSB. Insertion loss: <0.5dB @ 30 MHz.  
Dim: 9.6" w x 2" h x 1.5" d; 1.2 lbs..... **\$64.99**

### BASE MICROPHONES



**MC-60A** Desktop Microphone - Excellent performance when used with any KENWOOD transceiver. The zinc die-cast base offers great stability and is complete with a feather-touch PIT switch, an impedance selector switch, built-in preamplifier and 6 ft. coiled cord with 8-pin plug. Requires two "AA" batteries..... **\$149.99**

**MC-90** DSP Compatible Desk Microphone - It is supplied with two interchangeable heads. One has a flat response for good overall performance. The other offers exceptional clarity and a characteristic that peaks at around 3 kHz, perfect for DX. A 3-position switch on the base tailors the low-range cutoff frequency to suit the operator. Includes 6 ft coiled cord with 8-pin plug..... **\$249.99**

**MJ-88** Modular to 8-pin mic adapter..... **\$32.99**

### HANDHELD MICROPHONES



**SMC-34** Speaker mic with 3 function keys & volume control..... **\$32.99**

**SMC-33** Remote control speaker mic..... **\$65.99**

**KHS-26** Clip microphone w/earphone... **\$24.99**

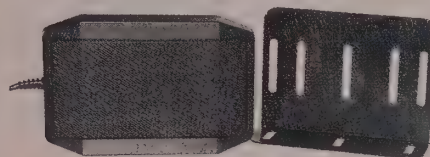
**HMC-3** Headset (VOX & PIT)..... **\$48.99**

**SMC-32** Speaker microphone..... **\$52.99**

### MOBILE SPEAKERS



**KES-5**  
Mobile speaker  
Heavy duty, meets Military Standards 810C, D, E & F. This 4 ohm speaker handles 40W of power, making it great for emergency and other vehicles requiring loud and clear audio. Includes a metal bracket to support the speaker from below or above, and attached cable without a connector so you can install your own.  
Dim: 5.1" w x 5.1" h x 3" d; 1.8 lbs..... **\$59.99**



**SP-50B** Communications Speaker - Compact, designed for mobile operation. The metal enclosure houses a high quality 2.5 in. speaker rated to 1.5 watts with a 300-4000Hz frequency response.  
Dim: 4.8" w x 3.2" h x 1.4" d; 10 oz. .... **\$55.99**

### BASE SPEAKER



**SP-23** Base Speaker - This versatile 8 ohm speaker features a metal cabinet with flip-out tilt bar. It houses a 3 in. speaker rated at 1W with a 300-5000 Hz frequency response. Includes a 3 ft cable.  
Dim: 4.8" w x 3.75" h x 9.25" d; 2.8 lbs..... **\$89.99**

### HEADPHONES

#### HS-5 Deluxe Headphones

Natural sound and low pressure permits long hours of fatigue free listening. Replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug. Response: 150-4000Hz, 8 ohms. Weight: 13 oz..... **\$79.99**



#### HS-5 Lightweight Headphones

Response: 100-10,000 Hz; Impedance: 12.5 ohms; 6 ft. straight cord with 1/4 in. phone plug. Weighs just 4 oz. **\$59.99**





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## All-Terrain Performance

On or off the road, Kenwood's new TM-271A delivers powerful mobile performance with 60W maximum output and other welcome features such as multiple scan functions and memory names. Yet this tough, MIL-STD compliant transceiver goes easy on you, providing high-quality audio, illuminated keys and a large LCD with adjustable green backlighting for simple operation, day or night.



144MHz FM TRANSCEIVER

# TM-271A

■ 200 memory channels (100 when used with memory names) ■ Frequency stability better than  $\pm 2.5$ ppm (-20~+60°C) ■ Wide/Narrow deviation with switchable receive filters ■ DTMF microphone supplied ■ NOAA Weather Band reception with warning alert tone ■ CTCSS (42 subtone frequencies), DCS (104 codes) ■ 1750Hz tone burst ■ VFO scan, MHz scan, Program scan, Memory scan, Group scan, Call scan, Priority scan, Tone scan, CTCSS scan, DCS scan ■ Memory channel lockout ■ Scan resume (time-operated, carrier-operated, seek scan) ■ Automatic repeater offset ■ Automatic simplex checker ■ Power-on message ■ Key lock & key beep ■ Automatic power off ■ Compliant with MIL-STD 810 C/D/E/F standards for resistance to vibration and shock ■ Memory Control Program (available free for downloading from the Kenwood Website: [www.kenwoodusa.com](http://www.kenwoodusa.com))

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VX-8R	
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 Enjoy FM broadcasts in stereo, with your stereo headset/earphone!  
 Optional 1 watt operation, using three AA batteries \*1  
 A large LCD backlit display in a compact case!  
 Up to 9 hours \*3 of Amateur Band operation with the optional FNB-102LI,  
 high capacity Lithium-ion Battery.

\* APRS® is a registered trademark of Bob Bruninga WB4APR.



50/144/(222)/430 MHz 5 W FM Transceiver  
 (50 MHz: AM 1 W; 222 MHz: 1.5 W (USA version Only))

**VX-8R**

The optional GPS unit  
 can be attached to the radio.

\*1 With optional accessories  
 \*2 US Version - Cellular band blocked  
 \*3 Assuming a duty cycle of 6-second transmit,  
 6-second receive, and 48-second standby (50 MHz 5 W)

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<http://www.vertexstandard.com>

Specifications subject to change without notice. Some accessories and/or  
 options may be standard in some areas. Frequency coverage may differ in  
 some countries. Check with your local Yaesu dealer for specific details.



**HF/VHF/UHF RADIOS**

FT-817ND



FT-857D



FT-897D

**FT-857D** HF/VHF/UHF 100W Multi-Mode Mobile – 160-10M, 60M, 6M, 2M, 70cm with 0.1-56, 76-108, 118-164 & 430-470 MHz receive. Power: 100W HF/6M, 50W 2M, 20W 70cm. 200 memories; Enhanced performance with installed DSP board; Large, multi-color LCD display; Dual VFOs; IF shift; Noise blanker; IPO; AGC; CTCSS/DCS; Auto repeater shift; SmartSearch™; Spectrum scope; ARTS™. Dim: 6.1" w x 2" h x 9.2" d; 4.6 lbs.  
**YSK-857 Included with purchase..... © \$699.99**

**Available Accessories:**

BET YAETUNECONT Better RF, NIF MMFT857D Nifty mini manual, W4R ANTENABOSS W4RT interface, W4R OBPSD W4RT Speech compressor, W4R OPCFW W4RT 500 Hz Collins, W4R OPFSB W4RT 2.3 KHz Collins, W4R OPFYCW300 W4RT 300 Hz Collins, ADMS4B Programming Software, ATAS120 HF/6/2/430 antenna, ATAS25 40/20/15/10/6/2/430 antenna, ATBK100 ATAS120 base kit, CT39 Packet cable, CT58 Band data cable, CT62 Cat interface cable, EDC20 DC cord, FC30 External antenna tuner, FC40 Auto tuner, FP1023 23A power supply, FP1030A 25A power supply w/meters, MD100A8X Desk mic w/tone control, MD200A8X Deluxe high fidelity desk mic, MH36E8J TTP mic, MH59A8J Remote control TTP mic, MLS100 Mobile speaker, TCXO9 TCXO unit (0.5ppm), T9023225 Extra DC cord, YA007FG FG whip w/mount, YF122C 500 Hz Collins CW filter, YF122CN 300 Hz Collins CW filter, YF122S 2.3 KHz Collins SSB filter, YH77STA Stereo headphones, YSK857 Separation kit

**FT-897D** HF/VHF/UHF 100W Multi-Mode Portable/Base – Similar to the FT-857D but can also operate using optional FNB-78 13.2V @ 4500mAh NiMH internal battery packs. With a battery pack it operates at 20W on all bands except 430 MHz (10W). Two FNB-78 packs may be installed simultaneously giving up to 8 hours of use.  
Dim: 7.9" w x 3.14" h x 10.3" d; 8.6 lbs. © **\$799.99**

**Available Accessories:**

Uses the same accessories as the FT-857D above, except: NIF MMFT857D, CT58, FP1023, FP1030A, TCXO9 & YSK857. Additional accessories for FT-897D: NIF MMFT897D Nifty mini manual, CD24 4-hr charge adapter for FNB78, FNB78 4.5AH NiMH battery, FP30 Internal PS, MMB80 Mobile bracket, PA26B 110VAC charger for CD24

**FT-817ND** HF/VHF/UHF 5W Backpack QRP Transceiver – Similar to the FT-857D but no DSP and is low power for portability. RX coverage is also different: 0.1-56 MHz, 76-154 MHz, 420-470 MHz, plus AM aircraft band. Power: 5W SSB/CW/FM & 1.5W AM with external 13.8V DC; 2.5W SSB/CW/FM & 0.7W AM with 9.6V battery pack or 8 AA batteries (can be changed to 5W SSB/CW/FM via menu). Includes 50/144/430 MHz whip antenna, 1400mAh NiMH battery and AA battery case.  
Dim: 5.3" w x 1.5" h x 6.5" d; 2.6 lbs ..... **\$599.99**

**Available Accessories:**

W4R OB817/NDIY W4RT CW & SSB Collins Filter, W4R OBPSD W4RT Speech compressor, W4R OPCFW W4RT 500 Hz Collins, W4R OPFSB W4RT 2.3 KHz Collins, W4R OPFYCW300 W4RT 300 Hz Collins, ADMS4A Programming software, ATAS25 40/20/15/10/6/2/430 MHz antenna, CSC83 Soft case, CT39 Packet cable, CT62 CAT interface cable, EDC6 DC cord, FNB72 9.6V 1000mAh NiCad, FNB85 9.6V 1400mAh NiMH, MH36E8J TTP mic, MLS100 Mobile speaker, NC72B Wall charger, TCXO9 TCXO unit, YA007FG FG whip with mount, YF122C 500 Hz Collins CW filter, YF122CN 300 Hz Collins CW filter, YF122S 2.3 KHz Collins SSB filter

**HF/6M RADIOS**

**FT-450** HF/6M 100W Compact Transceiver Covers 160-6M TX with 0.03-56 MHz RX and AM/FM/SSB/CW modes, built-in CTCSS. 500 regular memories; Power: 100W output. 10 kHz roofing filter and 400 MHz IF DSP. Built-in electronic keyer with 118 character CW beacon function. LCD display and bar-graph metering. Selectable AGC, IF width & shift, contour, digital noise reduction, manual notch filter and clarifier. IPO, VOX. Dedicated Data Jack for FSK-RTTY. Digital voice announcement of frequency, mode and S-meter. Comes with hand mic, mic clip & DC power cord. Optional internal antenna tuner & carrying handle.  
Dim: 9" w x 3.3" h x 8.5" d; 7.9 lbs ..... © **\$649.99**

**FT-450AT** – Same as FT-450 but includes installed ATU-450 auto antenna tuner..... © **\$749.99**

**Available Accessories:**

BET YAETUNECONT Better RF, NIF MMFT450/AT Nifty mini manual, ATAS120 HF/6/2/430 antenna, ATBK100 ATAS120 base kit, ATU450 Internal coax automatic antenna tuner (160-6M, FT-450 only), CT118 Control cable for Quadra System, FC40 External automatic wire antenna tuner, FP1023 23A Switching power supply, FP1030A 30A power supply, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, MHG1 Carrying handle, MMB90 Mobile mounting bracket, T9023725 Extra DC cord, T9207451 6.5' 10-pin DIN plug & cable, T9207460 4' 10-pin DIN plug & cable, YH77STA Stereo headphones



**FT-950** HF/6M 100W Transceiver – Covers 160-10 Meters + 50 MHz band (TX) and 0.03-56 MHz (RX), all modes. Power: 100W SSB/CW/FM (25W AM). DSP is utilized throughout the design providing leading-edge performance on both transmit and receive. This incorporates many features such as Variable Bandwidth, IF Shift and Passband Contour tuning. Also provided are Digital Noise Reduction, Digital Auto-Notch Filtering and manually tuned IF Notch filter. The DMU-2000 is an option that provides extensive display capabilities via a user-supplied VGA computer monitor. Some of these capabilities include Band Scope, Audio Scope, X-Y Oscilloscope, World Clock, Rotator Control, extensive Transceiver Status Displays and Station Logging Capability. Other features include Speech Processing, built-in Electronic Keyer, Digital Noise Reduction, two antenna jacks and Automatic Antenna Tuner.  
Dim: 14.4" w x 4.5" h x 12.4" d; 28.7 lbs... **\$1479.99**

**Available Accessories:**

BET YAETUNECONT Better RF, NIF MMFT950 Nifty mini manual, CT118 Control cable for Quadra System, DMU2000 Data management unit, DV56 Voice memory unit, FC40 Auto tuner, FH2 Remote Keypad, FP1023 23A power supply, FP1030A 25A power supply w/meters, MD100A8X Desk mic. w/tone control, MD200A8X Dlx hi-fidelity desk mic., MTU160 U-tuning kit 160M, MTU30/20 U-tuning kit 30/20M, MTU80/40 U-tuning kit 80/40M, SP2000 External speaker w/audio filters, T9023725 Extra DC cord, T9101556 Rotor control cable, T9207451 6.5' 10-pin DIN plug & cable, T9207460 4' 10-pin DIN plug & cable, YH77STA Stereo headphones

© Price after instant coupon, coupons and included items may expire 10/31/08. Please call/web for current price and promotions.

**YAESU**  
**HIGH-END HF/6M BASE STATIONS**

**FT-2000** HF/6M 100W Transceiver – Covers 160-6M (TX) and 0.03-60 MHz (RX), all modes. Power output: 100W. Features: Built-in automatic antenna tuner; DSP-based variable IF Bandwidth, IF shift and Contour Tuning; First IF Roofing Filters (3 kHz/6 kHz/15 kHz included); Dual In-band Receive; Receiver Front End includes VRF (variable RF Tuning) Preselector that works in conjunction with a bank of fixed bandpass filters; External display port with optional DMU-2000 unit for viewing of RF scope, Audio scope and Oscilloscope displays.  
Dim: 16" w x 5.3" h x 14" d; 33 lbs..... **\$2449.99**

**FT-2000D** – Same as the FT-2000 but 200W output & ext. power supply included ..... **\$3099.99**

**Available Accessories:**

NIF MMFT2000/D Nifty mini manual, W4R OPCFW W4RT 500 Hz Collins, W4R OPFYCW300 W4RT 300 Hz Collins, CT119 Firmware upgrade cable, DMU2000 Data management unit, FH2 Remote Keypad, MD100A8X Desk mic. w/tone control, MD200A8X Dlx hi-fidelity desk mic., MH31B8 Extra hand mic., MTU160 U-tuning kit 160M, MTU30/20 U-tuning kit 30/20M, MTU80/40 U-tuning kit 80/40M, SP2000 External speaker w/audio filters, T9101556 Rotor control cable, YF122C 500Hz Collins CW filter, YF122CN 300Hz Collins CW filter, YH77STA Stereo headphones



FTDX-9000D

**FTDX-9000 Series** – Covers HF and 6 meters; available in three configurations including 200W and 400W versions. Class-A operation at 100W (400W version or 75W with the 200W version). The 200W versions feature a built-in power supply. There is an included external power supply for the 400W version. Large, precision analog meters and a 6.5 in. TFT display (FTDX-9000D) gives unprecedented information and access to dozens of features and settings. An ultra-quiet 400 MHz high resolution direct digital synthesizer combines with the state-of-the-art receiver design to yield a typical two-tone dynamic range of >110 dB along with a 3rd-order intercept point in excess of +40 dBm. The fully-loaded FTDX-9000D includes three permeability-tuned, motor-driven "u" RF Tuning modules with Q>300, for ultra-sharp RF selectivity. IF DSP speech processing and microphone equalization and monitor for voice data and CW modes. There is also a low level transverter output port. A flash memory port and keyboard connector ensure that your station will evolve as the FTDX-9000 does.

**FTDX-9000D** 200W, TFT display. © **\$10999.99**

**FTDX-9000MP** 400W, no TFT..... © **\$11549.99**

**FTDX-9000 Contest** 200W, no TFT © **\$11999.99**

(all FTDX-9000 radios are drop shipped from Yaesu)

**Available Accessories:**

MD100A8X Desk microphone w/tone control, MD200A8X Dlx hi-fidelity desk microphone, MH31B8 Extra hand microphone, YH77STA Stereo headphones  
FTDX-9000D & FTDX-9000 Contest only:  
SP9000 Ext. dual speakers w/filters (FTDX-9000MP comes with similar dual speaker FPS-9000H)



# The radio... FT DX 9000

## DISTINGUISHED

Experience  
400 imposing Watts,  
and call with confidence!



FT DX 9000MP is an after-market keyboard/keypad unit, not a built-in unit. Display image simulated and may differ in actual use.

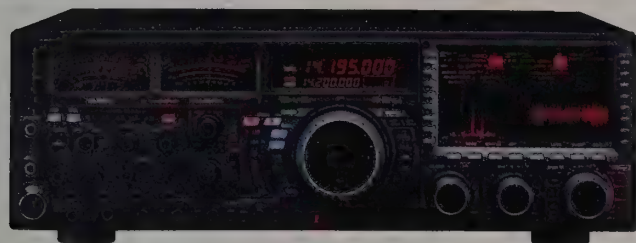
The FT DX 9000MP's Power Amplifier stage utilizes SD2931 MOS FET devices in a parallel, push-pull configuration, a conservative design that permits ultra-clean Class-A operation at a full 100 Watts of output, with continuous bias adjustment between Classes A and AB available on the front panel. If you have a professional microphone with a balanced "Cannon" (XLR) connector, you may connect it directly to the matching connector on the front panel, then use our exclusive three-band Parametric Microphone Equalizer to adjust the center frequency, bandwidth, and equalizer gain in the bass, mid-range, and treble frequency ranges.

**YAESU engineers take signal quality seriously, because we know you do, too!**

### HF/50 MHz Transceiver FT DX 9000MP 400 W Special Order Version

Two Pairs of Meters, plus LCD Window; Data Management Unit and Flash Memory Slot Built In. Main/Sub Receiver VRF, plus Full Dual Receive Capability, External 50 V/24 A Switching Regulator Power Supply and Speaker with Audio Filters

Display color (Umber or Light Blue) may be selected at the time of purchase. Modification from 400 to 200 W not possible.



### HF/50 MHz Transceiver FT DX 9000D 200 W Version

Large TFT, Data Management Unit and Flash Memory Slot Built In, Main/Sub Receiver VRF, plus Full Dual Receive Capability, Three  $\mu$ -Tuning Modules for 160 - 20 M, 50 V/12 A Internal Switching Regulator Power Supply



### HF/50 MHz Transceiver FT DX 9000 Contest 200 W Custom-Configurable Version

Two Pairs of Meters, plus LCD Window, VRF Input Preselector Filter, Three Key Jacks, and Dual Headphone Jacks, 50 V/12 A Internal Switching Regulator Power Supply

Display color (Umber or Light Blue) may be selected at the time of purchase. Modification from 200- to 400-Watt version not available.

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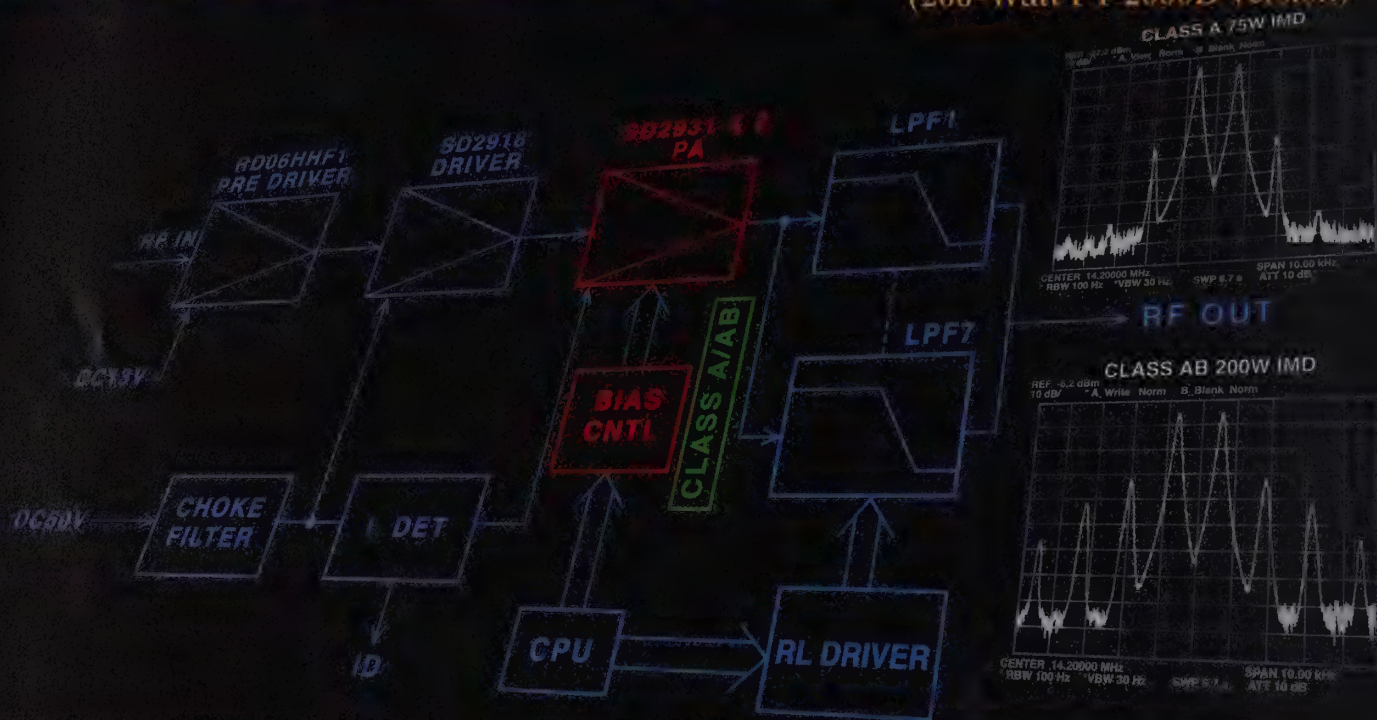
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Cypress, CA 90630 (714)827-7600



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# Ultra-low Distortion Class-A Final Amplifier

(200-Watt FT-2000D version)



The 200-Watt FT-2000D includes provision for operation in "Class-A" mode at 75 Watts of power output. It utilizes high bias current to produce very low transmitter Intermodulation products. The 3rd-order IMD products are typically suppressed 45 dB or better. The 5th and higher-order IMD is typically suppressed 70 dB or more. You may adjust the bias level between Classes A and AB to meet the demands of high ambient temperature in your station, and the long duty cycles associated with contest or DX-pedition use.

The FT-2000D (200-Watt version) utilizes push-pull SD2931 MOS FET devices, operating at 50 Volts. The user-adjustable bias control permits adjustment for optimum suppression of Intermodulation distortion products. The elaborate heat sink design includes a combination of aluminum and 3mm thick high-conductivity copper plate. The total heat sink capacity of 2720 cc will ensure many years of reliable operation of this 200-Watt powerhouse.



HF/50 MHz Transceiver

**FT-2000D** 200 W Version (External Power Supply)

**FT-2000** 100 W Version (Internal Power Supply)

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# Introducing the Yaesu FT-950 transceiver for DX enthusiasts

## Superb receiver performance

## Direct lineage from the legendary FT DX 9000 and FT-2000



### HF/50 MHz 100 W Transceiver **FT-950**

- Triple-conversion super-heterodyne receiver architecture, using 69.450 MHz 1st IF
- Eight narrow, band-pass filters in the RF stage eliminate out of band interference and protect the powerful 1st IF
- 1st IF 3 kHz Roofing filter included
- High-speed Direct Digital Synthesizer (DDS) and high-spec Digital PLL for outstanding Local Oscillator performance
- Original YAESU IF DSP advanced design, provides comfortable and effective reception. IF SHIFT / IF WIDTH / CONTOUR / NOTCH / DNR
- DSP enhancement of Transmit SSB/AM signal quality with Parametric Microphone Equalizer and Speech Processor
- Built-in high stability TCXO ( $\pm 0.5$  ppm after 1 minute @ 77 ° F)
- Built-in automatic antenna tuner ATU, with 100 memories
- Powerful CW operating capabilities for CW enthusiasts
- Five Voice Message memories, with the optional DVS-6 unit
- Large Multi-color VFD (Vacuum Fluorescent Display)
- Optional Data Management Unit (DMU-2000) permits display of various operating conditions, transceiver status and station logging
- Optional RF  $\mu$ -Tune Units for 160 m, 80/40 m and 30/20 m Bands

### Optional, YAESU Exclusive, Fully-Automatic $\mu$ -Tuning Preselector System!

Fully automatic, Ultra-sharp, External  $\mu$ -Tuning Preselector (optional) features a 1.1" (28 mm) Coil for High Q

On the lower Amateur bands, strong signal voltages impinge on a receiver and create noise and intermod that can cover up the weak signals you're trying to pull through. YAESU engineers developed the  $\mu$  (Mu) Tuning system for the FT DX 9000/FT-2000, and it is now available as an option for the FT-950. Three modules are available (MTU-160, MTU-80/40, MTU-30/20); these may be connected externally with no internal modification required! When  $\mu$ -Tuning is engaged, the VRF system is bypassed, but the fixed Bandpass Filters are still in the received signal path.



### Optional External Data Management Unit (DMU-2000) Provides Many Display Capabilities

Enjoy the ultimate in operating ease by adding the DMU-2000! Enjoy the same displays available with the FT DX 9000 and FT-2000: Band Scope, Audio Scope, X-Y Oscilloscope, World Clock, Rotator Control, Extensive Transceiver Status Displays, and Station Logging Capability. These extensive functions are displayed on your user-supplied computer monitor.



Shown with after-market keypad, keyboard, and monitor (not supplied).



DMU-2000 Data Management Unit (option).

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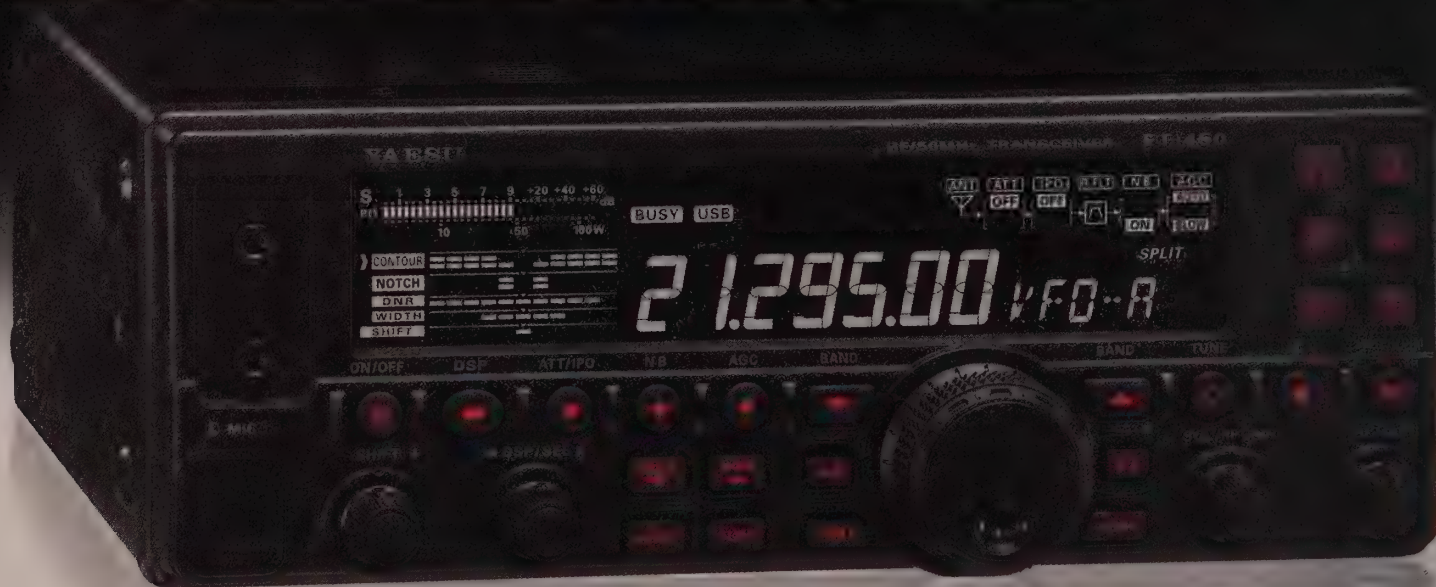
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# NEW COMPACT HF TRANSCEIVER WITH IF DSP

A superb, compact HF/50 MHz radio with state-of-the-art IF DSP technology configured to provide YAESU World-Class Performance in an easy to operate package. New licensees, casual operators, DX chasers, contesters, portable/field enthusiasts, and emergency service providers - **YAESU FT-450...This Radio is for YOU!**



HF/50 MHz 100 W All Mode Transceiver

## FT-450

Automatic Antenna Tuner ATU-450 optional

■ **FT-450AT** With Built-in ATU-450 Automatic Antenna Tuner

Compact size : 9" X 3.3" x 8.5" and Light weight : 7.9 lb

- Large informative Front Panel Display, convenient Control knobs and Switches
- The IF DSP guarantees quiet and enjoyable highperformance HF/50 MHz operation



Handy Front Panel Control of Important Features including:

- **CONTOUR Control Operation**  
The Contour filtering system provides a gentle shaping of the filter passband.
- **Manual NOTCH**  
Highly-effective system that can remove an interfering beat tone/signal.
- **Digital Noise Reduction (DNR)**  
Dramatically reduces random noise found on the HF and 50 MHz bands.
- **IF WIDTH**  
The DSP IF WIDTH tuning system provides selectable IF passband width to fight QRM.  
SSB - 1.8/2.4/3.0 kHz, CW - 0.5/1.8/2.4 kHz
- **Digital Microphone Equalizer**  
Custom set your rig to match your voice characteristics for maximum power and punch on the band.
- **Fast IF SHIFT Control**  
Vary the IF SHIFT higher or lower for effective interference reduction / elimination.

- The rugged FT-450 aluminum die-cast chassis, with its quiet, thermostatically controlled cooling fan provides a solid foundation for the power amplifier during long hours of field or home contesting use.



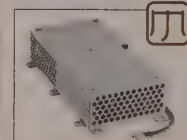
MOS FET RD100HHF1



The rugged aluminum die-cast chassis with cooling fan

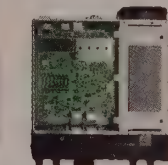
**More features to support your HF operation**  
 ● 10 kHz Roofing filter ● 20 dB ATT / IPO ● Built-in TCXO for incredible  $\pm 1$  ppm/hour (@+77 °F, after warmup) stability  
 ● CAT System (D-sub 9 pin): Computer programming and Cloning capability ● Large, Easy-to-See digital S meter with peak hold function ● Speech Processor ● QUICK SPLIT to automatically Offset transmit frequency (+5 kHz default) ● TXW to monitor the transmit frequency when split frequency operation is engaged ● Clarifier ● Built-In Electronic Keyer ● CW Beacon (Up to 118 characters using the CW message keyer's 3 memory banks) ● CW Pitch Adjustment (between 400 to 800 Hz, in 100 Hz steps) ● CW Spotting (Zero-Beating) ● CW Training Feature ● CW Keying using the Up/Down keys on the optional microphone ● Two Voice Memories (SSB/AM/FM), store up to 10 seconds each ● 20 seconds Digital Voice

- Operate anywhere using optional internal or external antenna tuning systems



Internal Automatic Antenna Tuner ATU-450

Covering 160 m to 6 m Amateur Bands Dipole or Yagi antennas (The ATU-450 Antenna Tuner is included in the FT-450AT)



External Automatic Antenna Tuner ATU-450

Covering 160 m to 6 m Amateur Bands (with 65+ ft end fed wire)



Active Tuning Antenna System ATAS-120A  
Covering 40 m to 6 m Amateur Bands (For mobile)

Recorder ● Dedicated Data Jack for FSK-RTTY operation  
 ● Versatile Memory System, up to 500 memory channels that may be separated into as many as 13 Memory Groups ● CTCSS Operation (FM) ● My Band / My Mode functions, to recall your favorite operating set-ups ● Lock Function ● Adjustable Main Tuning Dial Torque ● C.S. Switch to recall a favorite Menu Selection directly ● Hand Microphone included ● **IMPORTANT FEATURE FOR THE VISUAL IMPAIRED OPERATORS** - Digital Voice Announcement of the Frequency, Mode or S-meter reading

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# The Hottest Field Gear Anywhere!



HF/VHF/UHF Portable Operation  
Just Got a Lot More Powerful!

**FT-897D** **TCXO** **DSP** **60 m Band**

HF/50/144/430 MHz  
100 W All Mode Transceiver  
(144 MHz 50 W/430 MHz 20 W)



HF/VHF/UHF Multimode Mobile Transceiver,  
now Including Built-in DSP

**FT-857D** **DSP** **60 m Band**

HF/50/144/430 MHz  
100 W All Mode Transceiver  
(144 MHz 50 W/430 MHz 20 W)

Automatic Matching for  
FT-897/857 Series Transceivers



**FC-40**  
Automatic-Matching  
200-Memory  
Antenna Tuner  
(160 m ~ 6 m Band)

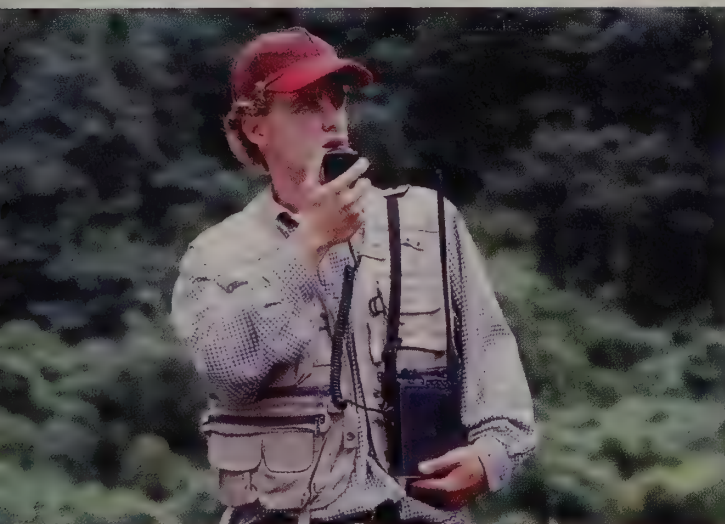
**WATERPROOF**

Mobile Auto-Resonating 7-430 MHz for  
FT-897/857 Series Transceivers



**ATAS-120A**  
Active Tuning Antenna System  
(no separate tuner required)

VHF/UHF  
Base RadialKit  
ATBK-100 for  
ATAS-120A.



REAL PERFORMANCE,  
REALLY PORTABLE

**FT-817ND**

HF/50/144/430 MHz  
5 W All Mode Transceiver  
(AM 1.5 W)

**60 m Band**

**ATAS-25**  
Manually-Tuned Portable Antenna



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# YAESU

## SINGLE BAND MOBILES



**FT-1802M** 2M FM Mobile – Extended receive 136-174 MHz (includes a 10 channel NOAA weather bank); Power: 50/25/10/5W; 221 Alphanumeric memories with eight banks; CTCSS and DCS Encode/Decode; Automatic Repeater Shift (ARS), Automatic Power-Off (APO) and Busy Channel Lock-out (BCLO); Morse Code trainer; Illuminated front panel keys; One-touch access to Yaesu's WIRES-II™ Internet Linking System; Password security prevents unauthorized use; Includes backlit DTMF microphone with four programmable keys and direct keyboard frequency entry.

Dim: 5.6" w x 1.6" h x 5.8" d; 2.6 lbs..... **\$139.99**

### Available Accessories:

NIF QRFT1802M Nifty quick reference card, ADMS1802 Programming software, MLS100 Mobile speaker



**FT-2800M** 2M FM Mobile – Cool, quiet, and ruggedly-built. Utilizes a Ultra-high Dissipation heat sink design, eliminating the need for a cooling fan. Covers 144-148 MHz transmit with 137-174 MHz receive. Includes Weather with Alert and 221 memories. Power: 65/25/10/5W; Direct keypad frequency entry with a backlit microphone that includes a 9-memory, 16-digit, DTMF autodialer and 4 user-programmable "soft" keys; Advanced track tuning RF input filtering; Alphanumeric display; Ergonomic, impact-resistant, MIL-spec design; CTCSS encode/decode and SmartSearch™ auto memory loading; Versatile scanning features a choice of scanning-resume option along with a "preferential" list; WIRES™ ready.

Dim: 6.3" w x 2.0" h x 7.3" d; 4 lbs ..... **\$149.99**

### Available Accessories:

NIF QRFT2800M Nifty quick reference card, ADMS2J Programming software, MLS100 Mobile speaker, S8002051 Extra mobile bracket, S8101436 Extra DC cable

© Price after instant coupon, coupons and freebies may expire 10/31/08. Please call/web for current price and promotions.

## LARGE INVENTORY

**We keep all the popular amateur radios in stock so they ship the same day you order!**

## DUAL BAND MOBILES



**FT-7800R** 2M/440 MHz FM Mobile – Designed for simplicity of operation along with a high performance receiver section. Ideal for simplex, repeater or satellite operation on both bands, without the need for cross-band repeat. Covers 144-148 & 430-450 MHz transmit with 108-520 & 700-999 MHz (cell blocked) receive. Power: 50W (2M), 40W (430 MHz); N.O.A.A. WX alert; 1000+ memory channels; One-touch operation via five "hyper memory" buttons; Illuminated keypad & mic keys; WIRES™ capability. Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs. **YSK-7800 Included with purchase .... \$264.99**

### Available Accessories:

NIF MMFT7800R Nifty mini manual, ADMS2K Programming software, CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release mobile mount, T9021715 Extra DC cable, YSK7800 Remote separation kit



FTM-10 series doesn't include a hand mic. Mic and PTT is built in the control head.

**FTM-10R** 2M/440 MHz FM Mobile – Compact, perfect for outdoor motor sports communications. Covers 144-148 and 430-450 MHz with extended receive coverage of 0.5-1.8, 76-108, 108-137, 137-174, 174-222, 300-420, 420-470, 470-800 and 800-999 MHz bands (cellular blocked). Has 500 memory channels with 8-digit alphanumeric tags and includes an independent AM/FM broadcast receiver. Listen to AM or FM broadcast and monitor an amateur band at the same time. AM/FM/NFM/WFM (Stereo) modes. Power Output: 50W (2m)/40W (70cm). The microphone and PTT button are built into the front panel. If a conventional hand mic is desired, it must be ordered separately. Blue LCD display, keys and indicators are illuminated with very bright LEDs. Automatic Range Transponder System ARTS™, VOX; Wireless cloning; Dual receive; Smart Search; CTCSS & DCS; DTMF. Clock-calendar; 1200/9600 bps Packet jack; WIRES-II™ and Bluetooth capable. PA function; Intercom feature to communicate with a fellow passenger, hands-free intercom is available with the optional Bluetooth adapter. Comes with mounting bracket, 10 ft. separation cable, front panel bracket +13.8 VDC at 8.5A. Dim: 4.4" w x 1.5" h x 7" d, 2.9 lbs..... **\$319.99**

**FTM-10SR** – Same except lower power, smaller & waterproof; 10W (2M), 7W (440 MHz) **\$319.99**

### Available Accessories:

AMK1 License plate bracket for YHAM-10, BLUETOOTHKIT Bluetooth kit w/BH-1/BU-1/CAB-1, COX2MM 6.6' coax cable for YHAM-10, CTM10 20' separation cable, MEKM10 Mic adapter jack, MH68A6J DTMF hand mic, MLS200M10 High power external speaker, MMBM10 Multi-angle stand bracket, MMBM11 Multi-angle handlebar bracket, YHAM10 2M/440 19.7" antenna

## DUAL & QUAD BAND MOBILES



Remote Kit Included!

FT-8800R

**FT-8800R** 2M/440 MHz FM Mobile – Easy operation, outstanding receiver performance, and cross-band repeat capability. Covers 144-148 & 430-450 MHz transmit with 108-520 & 700-999 MHz (cell blocked) wide coverage receive (Public safety, Commercial, Aircraft, and Government ranges); Power: 50W on 144 MHz, 35W on 430 MHz; Over 1000 memory channels, 512 "regular" on each band, five "Home," ten sets of band-edge memories on each band, and six "Hyper Memories"; Independent 2-channel operation – dual RX with one band as the main TX/RX band; Separate volume and squelch controls for each band; Ability to configure 8800R for VHF-VHF or UHF-UHF operation; Large, easy-to-read OmniGlow™ LCD with 4 illumination levels; One-touch band pattern; CTCSS/DCS (50/104 tone); User-program mic keys. Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs.

**YSK-8900 Included with purchase ..... \$379.99**

**FT-8900R** Quad Band FM Mobile – Same as the FT-8800R but covers 28-29.7, 50-54, 144-148, 430-440 MHz transmit with 28-29.7, 50-54, 108-180, 320-480 and 700-985 MHz (cell blocked) receive. Power: 50W (10/6/2M), 35W (430 MHz).

**YSK-8900 Included with purchase ..... \$424.99**

### Available Accessories for FT-8800R & FT-8900R:

NIF MMFT8800R Nifty mini manual, NIF MMFT8900R Nifty mini manual, ADMS2H Programming software for 8800R, ADMS2I Programming software for 8800R; CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release mobile mount, T9021810 Extra DC cable, YSK8900 Remote separation kit

## SINGLE BAND HT

**VX-150** 2M FM HT Coverage: 144-148 MHz TX, 140-174 MHz RX. 209 memories; Three power output levels 5/2/0.5W; Wide/Narrow deviation selection; Direct keypad input with 16 multi-function keys and two user-definable function keys; Priority monitoring; Dual watch; Smart-Search™; 7-Digit alpha memory labels; CTCSS & DCS encode/decode; 9 DTMF auto dial memo memory bank and preferential memory scanning; VFO search; Illuminated keypad & OmniGlow™ display; Auto repeater shift; ARTS™ (auto-range transponder system) function; Programmable menu; Die-cast aluminum case; High output speaker; MIL-STD 810D/E. Comes with NiCad battery pack, SMA antenna, wall charger, and belt clip. Dim: 4.2" h x 2.3" w x 1.1" d; 11.5 oz ..... **\$127.99**



### Available Accessories

ADMS1F Programming software, CN3 BNC-SMA adapter, CT27 Cloning cable, CT44 2-pin speaker mic adapter, CT53 Packet cable, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA25 6 "AA" cell battery case, FNBV57 7.2V 1100mAh battery, FNB64 7.2V 700mAh battery, FNB83 7.2V 1400mAh NiMH battery, LCC150/TT Leather case, LCC150S/TT Leather case/swivel, MH34B4B Speaker mic, MH37A4B Earpiece and mic, NC72B Extra wall charger, VAC10 Desktop charger, VC25 VOX headset



# A radio For Every Need - Yaesu VHF/UHF Mobiles

Imagine the Future of the Mobile Radio ...  
It's Now All Yours! ... **YAESU FTM-10SR**



**DUAL BAND**

10 W 2 m/70 cm\*  
Dual Band FM Mobile  
**FTM-10SR** \*70 cm 7 W

**Great New Features to Support  
Outdoor Motor Sports Activities  
Mobile Transceiver... Great Appearance ...  
Easy to Operate**



**DUAL BAND**

50 W 2 m/70 cm\*  
Dual Band FM Mobile  
**FTM-10R** \*70 cm 40 W

**Get "Back to Basics" with YAESU's FM Dual Band Mobile  
One-Touch Operation/Wide Receiver Coverage Included**



**DUAL BAND**

50 W 2 m/70 cm\* Dual Band FM Mobile  
**FT-7800R** \*70 cm 40 W



50 W 2 m Ultra Rugged VHF FM Mobile  
**FT-1802M** **2 m Band**



65 W 2 m Rugged FM Mobile  
**FT-2800M** **2 m Band**

**QUAD BAND  
DUAL RECEIVE**



50 W 10 m/6 m/2 m/70 cm\* Quad Band FM Mobile  
**FT-8900R** \*70 cm 35 W

**DUAL BAND  
DUAL RECEIVE**



50 W 2 m/70 cm\* Dual Band FM Mobile  
**FT-8800R** \*70 cm 35 W

For the latest Yaesu news, visit us on the Internet:  
<http://www.vertexstandard.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

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Vertex Standard  
US Headquarters  
10900 Walker Street  
Cypress, CA 90630 (714)827-7600





## YAESU SINGLE BAND HT

**VX-170** 2M FM Handheld  
A rugged, compact, high-performance FM HT delivering up to 5 watts of RF power. Receive coverage is from 136-174 MHz and has 200 alphanumeric memory channels that may be partitioned into as many as 10 memory groups. A 16 key backlit keypad for direct frequency entry and 4 column DTMF Paging. CTCSS/DCS encode/decode and a Code Squelch (EPCS) that allows paging a particular station and only receive calls from that station if desired. Security password feature protects against unauthorized use. One-touch access to the Yaesu WIRES-II™ VOIP Internet Linking System. Comes with FNB-83 7.2V 1400mAh Ni-MH battery pack, flexible SMA antenna, NC-88B wall charger and belt clip..... **© \$129.99**

**VX-177** — Same but 440 MHz band instead of 2M.  
Dim: 2.4" w x 4.7" h x 1.3" d; 13.8 oz ..... **\$149.99**

### Available Accessories

NIF QRVX170/177 Nifty quick reference card, ADMSVX170 Programming software for VX-170, ADMSVX177 Programming software for VX-177, CD26 Charger cradle, CMP460A Waterproof speaker/mic, CN3 BNC-SMA adapter, CT91 Microphone adapter, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA25 6 "AA" cell battery case, FNB83 7.2V 1400mAh NiMH battery, MH57A4B Speaker mic, MH73A4B Submersible speaker mic, NC88B Extra wall charger, VAC370 Rapid charger, VC24 VOX headset, VC27 Earpiece/mic



## DUAL BAND HTS

**FT-60R** 144/440 MHz FM Dualband FM HT — Wide RX coverage. Augmenting the transceiver on 144/430 MHz, there is RX coverage of VHF/UHF TV, VHF AM aircraft, and more: 108-137, 137-520 and 700-999 MHz (cell blocked). Emergency NOAA weather access and alert with alert scan. Power: 5/2/0.5W; 1000+ memories with alphanumeric labels; Emergency Automatic ID (EAI) feature, for search-and-rescue operations. Split CTCSS/DCS and DCS encode-only capability; Enhanced Paging and Code Squelch (EPCS), that allows you to page a particular station and only receive calls from that station, if desired; 9 DTMF auto-dialer memories; WIRES™ access key; Auto repeater shift; Auto-Range Transponder System (ARTS™); Rugged die-cast case, water-resistant; Comes with FNB-83 7.2V 1400mAh NiMH battery pack, NC-88B overnight charger, flexible SMA antenna, and belt clip.

Dim: 2.3" w x 4.3" h x 1.2" d; 13 oz ..... **\$189.99**

### Available Accessories

NIF QRTF60R Nifty quick reference card, ADMSIJ Windows software, CN3 BNC-SMA adapter, CT27 Cloning cable, CT44 2-pin speaker/mic adapter, EDC5B DC adapter/filter, EDC6 DC adapter plug/wire only, FBA25 6 AA cell battery case, FNB83 7.2V 1400mAh NiMH battery, MH34B4B Speaker mic, MH37A4B Earpiece & mic, NC88B Extra wall charger, VAC370 Rapid charger, VC25 VOX headset



**VX-3R** Ultra Compact  
2m/440MHz Dual Band FM Handheld — Covers 144-148 MHz and 430-450 MHz with wideband receive from 500 kHz to 999 MHz (less cellular). Includes 1.8 to 30 MHz with AM/FM/NFM/WFM modes so you can hear the AM, shortwave and FM broadcast bands, TV audio, aircraft and public service channels. 1000 alphanumeric channel memory system with special memory banks for Weather, Broadcast, VHF

Marine and Shortwave Broadcast. The sub-RX feature allows listening to AM or FM radio stations while monitoring a HAM frequency which you can talk on instantly by hitting the PTT button. Power output with the supplied high-capacity super-thin 1000 mA hour Lithium-Ion battery is 1.5W (VHF) and 1W (UHF). Using the optional EDC-21 DC adapter output increases to 3W (VHF) and 2W (UHF). Rugged aluminum die-cast chassis. Built-in features include: CTCSS/DCS Encode/Decode with split tone capability; DTMF; Messaging; AM Band Bar Antenna; WIRES™-II Internet Key; Automatic In-Range Transponder (ARTS); FM Stereo Earphone Jack; CW Learning and Training; Mechanical Dial Lock; Internal temperature sensor. Comes with the FNB-82LI lithium-ion battery and NC-85B charger, SMA flexible antenna, belt clip, and wrist strap.

Dim: 1.9" w x 3.2" h x 0.9" d, 4.6 oz ..... **\$179.99**

### Available Accessories:

NIF QRVX3R Nifty quick reference cards, ADMSVX3 Programming software, CN3 BNC-SMA adapter, CSC92 Soft case, CT27 Cloning cable, CT44 Two pin mic adapter (for older Yaesu mics), EDC21 DC cigarette lighter cable with plug, FBA37 Cell Holder (3 x AA), FNB82LI 3.7V 1000 mAh Lithium Ion battery, MH34B4B Speaker mic, MH37A4B Compact lapel mic with earphone, VC25 VOX/PTT headset



## TRI BAND HT

**VX-6R** 144/220/440 MHz Triple band Submersible FM HT — 5W power on 144/440 MHz and 1.5W on 220 MHz; Wide receive coverage: 504 kHz — 998.990 MHz (cell blocked); 900 memory channels with 24 memory banks and two "Special Memory" groups; New "Wake-Up" feature checks for activity when the radio is turned off!

Emergency Automatic ID (EAI) system; Four output power settings: 5/2.5/1/0.3W on 144/440 MHz, 1.5/1/0.5/0.2W on 222 MHz; One-touch Direct Memory Recall (DMR) access to most important memory channels; Internal temperature sensor; WIRES™ internet-linking; The optional SU-1 barometric pressure sensor unit permits monitoring of sudden weather changes by monitoring atmospheric pressure. Comes with FNB-80LI 7.4V 1400mAh Li-Ion battery, NC-72B battery charger, flexible SMA antenna, belt clip, hand strap.

Dim: 2.3" w x 3.5" h x 1.1" d; 9.5 oz ..... **\$249.99**

### Available Accessories

NIF QRVX6R Nifty quick reference card, ADMSVX6 Programming software, CD15A Charger stand for NC72B, CMP460A Waterproof speaker/mic, CN3 BNC-SMA adapter, CSC91 Soft case, CT91 Mic adapter, EDC5B DC adapter/filter, EDC6 DC adapter/plug/wire only, FBA23 2 AA cell battery case, FNB80LI 7.4V 1300mAh lithium-ion, MH57A4B Speaker/mic, MH73A4B Submersible speaker mic, NC72B Extra wall charger, SU1 Altitude/barometric pressure sensor, VC24 VOX headset, VC27 Earpiece/mic



## QUAD BAND HTS

**VX-7R** Ultra-Rugged, Submersible Magnesium FM HT — Quad-band HT With a full 5W output on 50, 144 and 440 MHz FM, 300mW output on 220 MHz. The rugged design allows the unit to be submersible at 3 ft. for 1/2 hour, and meets JIS-7 specification. 500 kHz to 999 MHz continuous receive (cellular blocked). Over 900 memories including 40 memory scan band limit and 10 weather; Built-in CTCSS/DCS enc/decode; "Split Tone" capability; Auto-Range Transponder System; User-changeable icons and fonts; Full-color strobe LED; Spectrum scope display; 24-hour clock; On/Off timers; WIRES™ internet-linking; Comes with FNB-80LI 7.4V 1300mAh lith-ion battery, NC-72B battery charger, dual section belt clip, silver case.

Dim: 2.4" w x 3.5" h x 1.1" d; 9.2 oz.

**VX-7RB** Same but black case... each **© \$294.99**

### Available Accessories

NIF QRVX7R Nifty quick reference card, ADMS1G Programming software, CD15A Rapid charger for NC72B, CMP460A Waterproof speaker/mic, CN3 BNC-SMA adapter, CSC88 Soft case, CT91 Mic. adapter, EDC5B DC adapter/filter, EDC6 DC adapter/plug/wire only, FBA23 2 "AA" cell battery case, FNB80LI 7.4V 1300mAh lithium-ion, MH57A4B Speaker/mic, MH73A4B Submersible speaker mic, NC72B Extra wall charger, Q3000185 Replacement duck, SU1 Altitude/barometric pressure sensor, VC24 VOX headset, VC27 Earpiece/mic



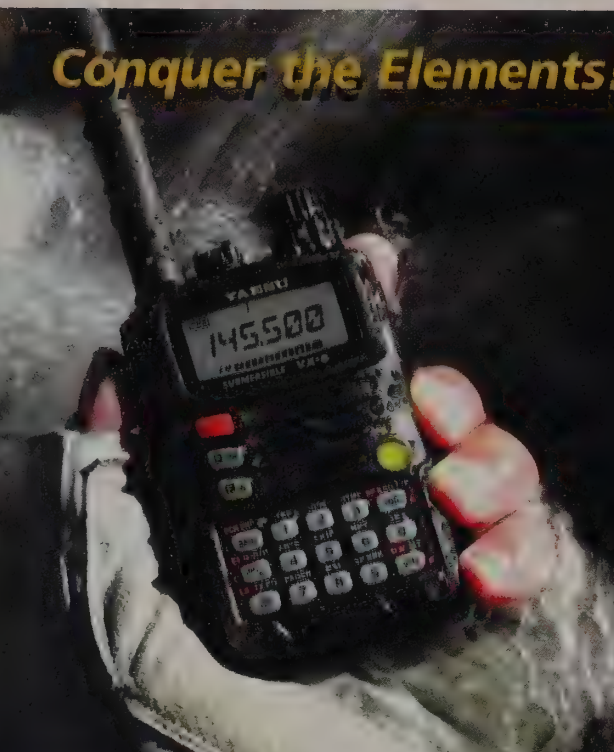
**VX-8R** Ultra-Rugged, Submersible APRS FM HT The Yaesu VX-8R provides a full 5 watts FM on 50/144/430 MHz plus 1.5 watts on 222 MHz. Wideband receive for 0.5-99.99 MHz (cell blocked). It supports Blue Tooth hands-free operation with the optional YAESU BLUE-TOOTH kit. There is also an optional GPS unit and antenna with loads of features. This radio supports APRS 1200/9600 bps data communication (B band only). The VX-8R is submersible and meets IPX57 specifications (3 feet for minimum of 30 minutes). A powerful 7.4 V 1100 mAh Lithium Ion battery is included. Dual Ham band Operation (V+V/U+U/V+U) while listening to AM/FM Broadcasts. It has weather band receive with Weather Alert. A barometric & temperature sensor is included. The dot matrix LCD display provides Memory tag up to a maximum of 16 characters. You even get a high-resolution Spectrum Analyzer with ±60 channels indication with wave monitoring of received/modulated signal! And DCS and CTCSS encode and decode is standard. Dim: 2.36" w x 3.74" h x 0.92" d; 8.5 oz ..... **CALL / WEB**

**Order Now Toll Free  
from any AES Location**



# A radio For Every Need - Yaesu VHF/UHF Handhelds

**Conquer the Elements!**



**IPX7**  
Submersible  
3 feet (1m) for 30 min.

**2 m / 70 cm Dual Band**

5 W Heavy Duty Submersible  
2 m/70 cm Dual Band FM Hand held (220 MHz: 1.5 W)  
**VX-6R**



5 W Ultra-Rugged, Submersible  
6 m/2 m/70 cm Tri-Band  
FM Hand held

**VX-7R/VX-7RB** **6 m / 2 m / 70 cm Tri-Band**



5 W Heavy Duty  
2 m/70 cm Dual Band FM Hand held  
**FT-60R**

**2 m / 70 cm Dual Band**

**Tougher than Tough!**



**IPX7**  
Submersible  
3 feet (1m) for 30 min.

5 W Heavy Duty Submersible  
2 m FM Mono Band Hand Helds  
**VX-120** **VX-170** **VX-127** **VX-177**  
(8 key Version) (16 key Version) (8 key Version) (16 key Version)

**2 m Mono Band**  
**70 cm Mono Band**



Ultra-Rugged 5 W Full Featured  
2 m FM Hand helds

**VX-150/VX-110** **2 m Mono Band**

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Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.



(6) On internal batteries: 5W (2.5W on 70cm)



(4) Control head separate from body  
(5) AM aircraft receive mode  
All radios are cellular blocked

(1) Manufacturer only guarantees specs within the ham bands  
(2) There are gaps in non-voice or data portions in certain bands  
(3) FT-8900R includes 10M/6M as well

SINGLE BAND MOBILES													
MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	KENWOOD	YAesu
MODEL	DR-03T	DR-06T	DR-135TMKIII, TPKMIII	DR-235TMKIII	DR-435TMKIII	IC-2200H	IC-V8000	ID-1 <sup>(4)</sup>	TM-271A	8621	8621X2	9402X	FT-1802M
TX RANGE (MHz)	28-29.695	50-53.995	144-148	222-224.995	430-449.995	144-148	144-148	1240-1300	144-148	145.01	144.39	144-144.3	144-148
RX RANGE (MHz)	28-29.695	50-53.995	118-174	216-279.995	350-511.995	118-174	136-174	1240-1300	136-174	145.01	144.39	144-144.3	136-174
AIRCRAFT RX	NO	NO	YES	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO
POWER OUTPUT	10/5/1W	50/20/5W	50/10/5W	25/10/5W	35/10/5W	65/25/10W	75/25/10/5W	10/1W	60/25W	5W	7W	10W	50/25/10/5W
TTP MICROPHONE	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO	NO	NO	YES
TONE ENCODE	YES	YES	YES	YES	YES	YES	YES/DCS	YES	YES	NO	NO	NO	YES
TONE DECODE	YES	YES	YES	YES	YES	YES	YES/DCS	YES/DCS	YES/DCS	NO	NO	NO	YES/DCS
MEMORIES	100	100	100	100	100	207	207	100	200	0	0	0	221
ALPHANUMERIC	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	YES
PC PROGRAMMABLE	TBD	TBD	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO
13.8V DC@	3A	11A	11A	8A	10A	15A	15A	7A	13A	>1A	2A	3A	10A
ANTENNA CONNECTOR	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	N	SO-239	SO-239	SO-239	SO-239	SO-239
HEIGHT (IN)	1.57	1.57	1.6	1.6	1.6	1.6	2	6	1.7	1.5	1.5	2.5	1.6
WIDTH (IN)	5.85	5.85	5.6	5.6	5.6	5.5	5.9	2	6.3	5	5	6.5	5.6
DEPTH (IN)	6.83	6.83	6.9	6.9	6.9	7.1	5.9	2	5.4	5	5	6	5.8
WEIGHT (LBS)	2.21	2.21	2.3	2.3	2.3	2.75	2.22	2.6	2.6	0.8	0.8	2	2.6

MULTI-BAND MOBILES													
MANUFACTURER	ALINCO	ICOM	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	YAesu	YAesu	YAesu	YAesu	YAesu	YAesu
MODEL	DR-635T	ID-800	IC-208H	IC-2820H	TM-771A	TM-D770A <sup>(4)</sup>	FTM-10SR <sup>(4)</sup>	FTM-10R	FTM-10SR <sup>(4)</sup>	FT-7800R	FT-8800R	FT-8900R	
TX RANGE (MHz) <sup>(1)</sup>	144-148	144-148	144-148	144-148	144-148	144-148	144-148	430-450	430-450	430-450	430-450	28-29.7, 50-54	108-180
	430-450	440-450	440-450	430-450	430-450	438-450	438-450	430-450	430-450	430-450	430-450	144-148	320-480, 700-985
RX RANGE (MHz) <sup>(1)</sup>	87.5-108	118-173	118-174 <sup>(6)</sup>	118-549.99 (LEFT)	118-154 (A BAND)	118-470 (A BAND) <sup>(4)</sup>	118-470 (A BAND) <sup>(4)</sup>	0.5-1.8	0.5-1.8	108-520	108-520	28-29.7, 50-54	
	108-174 <sup>(6)</sup>	230-549	230-550	118-173.99, 375-549.99	136-524	136-175, 300-524	136-175, 300-524	76-222	76-222	700-999	700-999	108-180	
	335-480	810-999	810-999	810-990.99 (RIGHT)	800-1300 (B BAND)	800-1300 (B BAND) <sup>(6)</sup>	800-1300 (B BAND) <sup>(6)</sup>	300-999	300-999	300-999	300-999	320-480, 700-985	
SINGLE OR DUAL RX	DUAL	SINGLE	SINGLE	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	SINGLE	DUAL	DUAL	
POWER (2M)	50/25/5W	55/15/5W	55/15/5W	50/15/5W	50/10/5W	50/10/5W	50/10/5W	10/30/5W	10/30/5W	50/20/10/5W	50/20/10/5W	35W	
POWER (440 MHz)	35/20/5W	50/15/5W	50/15/5W	50/15/5W	50/10/5W	50/10/5W	50/10/5W	40/20/5W	40/20/5W	40/20/10/5W	35/20/10/5W	800	
MEMORIES	200	500	500	522	1000	1000	1000	500	500	1000	1000	800	
TONE ENCODE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
TONE DECODE	YES	DCS	YES	YES	YES	YES	YES	YES	YES	DCS	DCS	DCS	
DUPLEXER	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
CROSS-BAND REPEAT	YES	NO	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	
ALPHANUMERIC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
PC PROGRAMMABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
9600B COMPATIBLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
SEPARABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
HEIGHT (IN) (HEAD)	5.5	5.6	1.6	1.65 (1.25)	1.7	1.7 (2.8)	1.5	1.1 (1.5)	1.6	1.6	1.6	1.6	
WIDTH (IN)	1.6	1.6	5.6	5.9 (5.9)	5.5	5.6 (6.2)	4.4	5.1 (4.4)	5.5	5.5	5.5	5.5	
DEPTH (IN)	7.3	7.3	7.3	7.4 (2.6)	7.1	6.3 (2.2)	7	3.2 (1.6)	6.6	6.6	6.6	6.6	
WEIGHT (LBS)	2.2	2.65	2.7	3.3 (0.46)	3.3	2.6 (0.6)	2.9	1 (0.5)	2.2	2.2	2.2	2.2	



## SINGLE-BAND HANDHELDS

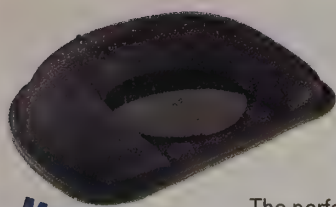
MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM <sup>(1)</sup>	ICOM <sup>(1)</sup>	ICOM <sup>(1)</sup>	ICOM <sup>(1)</sup>	KENWOOD	YAESU	YAESU	YAESU
MODEL	DJ-496T	DJ-S11T	DJ-V17T	DJ-V27T	DJ-V47T	S45T	V82	U82	IC-V8SPORT	IC-V85	TH-K2AT	VX-150	VX-170	VX-177	VX-177	VX-177	TH-K2AT	VX-150	VX-170	VX-177
BAND	440MHz	2M	130-174	220MHz	440MHz	440MHz	2M	440MHz	2M	2M	2M	2M	2M	2M	2M	2M	2M	2M	2M	440kHz
RX RANGE (MHz)	430-450	144-148	120-174	216-249.995	410-470	420-474	136-174	400-479	136-174	136-174	136-174	140-174	137-174	420-470	420-470	420-470	136-174	140-174	137-174	440-470
AIRCRAFT RX	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POWER OUTPUT	5W	340mW	5W	5W	4.5W	500mW	7W	5W	5.5W	7W	5W	5W	5W	5W	5W	5W	5W	5W	5W	5W
TOUCH-TONE PAD	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TONE ENCODE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TONE DECODE	YES <sup>(1)</sup>	NO	YES <sup>(1)</sup>	YES <sup>(1)</sup>	YES <sup>(1)</sup>	YES <sup>(1)</sup>	YES	YES	YES <sup>(1)</sup>	YES	YES <sup>(1)</sup>	YES <sup>(1)</sup>	DCS	DCS	DCS	DCS	YES <sup>(1)</sup>	DCS	DCS	DCS
MEMORIES	40	21	200	200	200	100	200	200	100	107	100	200	200	200	200	200	100	200	200	200
ALPHANUMERIC	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
BATTERY TYPE	Ni-CAD	AA	Ni-MH	Ni-MH	Ni-MH	AA	Ni-CAD	Ni-CAD	AA	LITH-ION	Ni-MH	Ni-CAD	Ni-MH	Ni-MH	Ni-MH	Ni-MH	Ni-MH	Ni-CAD	Ni-MH	Ni-MH
PC PROGRAMMABLE	YES	NO	SMA	SMA	SMA	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
ANTENNA CONNECTOR	BNC	FIXED <sup>(2)</sup>	SMA	SMA	SMA	SMA	BNC	BNC	BNC	BNC	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA
HEIGHT (IN)	4.9	3.9	4.33	4.33	4.33	3.86	5.5	5.5	5.2	4.34	4.4	4.3	4.7	4.7	4.7	4.7	4.4	4.3	4.7	4.7
WIDTH (IN)	2.2	2.2	2.28	2.28	2.28	2.1	2.24	2.1	2.2	2.2	2.4	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3
DEPTH (IN)	1.6	1.1	1.43	1.43	1.43	1.17	1.4	1.4	1.4	1.35	1.1	1	1.2	1.2	1.2	1.2	1.1	1	1.2	1.2
WEIGHT (OZ)	13.2	6.5	9.9	9.9	9.9	5.7	13.8	13.8	12.3	12.5	12.5	11.5	13.8	13.8	13.8	13.8	12.5	11.5	13.8	13.8

## MULTIBAND HANDHELDS

[illegible]

(1) Standard CTCSS plus DCS  
(2) Folding ant. attached  
(3) Comes with AA battery case

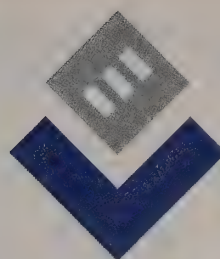




**LM-25 Bean Bag Dash Mount**

The perfect solution for when the use of windshield suction cup mounts are prohibited. Open design allows for full viewing of your device. Safety loop included. Bean bag only.

**Mounting  
NO HOLES  
Solutions**



# Lido

**No Holes Mounting Solutions Made Easy**



**LM-100 Vent Mount**

For remote heads. Installs or removes in seconds.



**LM-300 Floor Mount**

15" gooseneck attaches to seat bolt for perfect positioning.



**LM-200EXP Visor Mount**

Easily hooks over visor. Installs or removes in seconds.



**LM-900BG The Bug**

Low profile design, flexible mounting pad.



**LM-600 LoBoy**

Low profile design, flexible mounting pad.



**LM-700**

Ultimount - universal mount for remote heads.



**LM-801EXP Cup Holder Mount**

Great for HT or remote heads.



**LM-1200 Vent Mount Mic/HT Hanger**

Installs or removes in seconds.



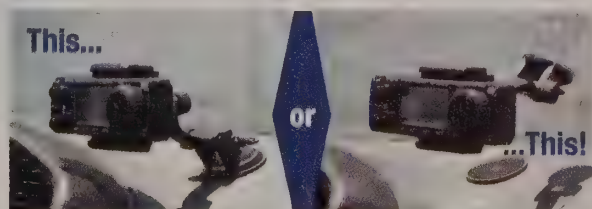
**LM-1000EXP Bicycle/Motorcycle Mount**

Easily attaches to handlebars.



**LM-1100 Motorcycle Mount**

Made of marine grade aluminum. Great for outdoor use.



**LM-500H Low Vibration Mount**

Multidirectional. Mounts to dash with flexible mounting pad or to windshield with super strong suction cup.



**LM-100 Vent Mount with LM-H Side Grip Holder**

Can handle devices from 1 7/8" to 4 1/4" in height.



**LM-400EXP Window Mate**

360° swivel for optimal viewing. Installs or removes in seconds.



**LM-2500H Bean Bag w/Dash Mount & Side Grip Holder**

LM-25 Bean Bag combined with LM-500H Low Vibration Mount.

[www.lidomounts.com](http://www.lidomounts.com)

**See Prices in Price Guide**

Call 888-860-LIDO (5346)  
1105 South Grant Ave. Santa Ana, CA 92705  
Monday thru Friday 10:00 AM to 5:00 PM Pacific Time



# MFJ Power Supplies & Accessories

Economically Power your Station Equipment and Accessories with one of these MFJ MightyLite™ or Compact Switching Power Supplies!  
*Small • Super Lightweight • Rugged • No RF Hash or Noise!*



4125

**Small** – *MightyLites™* are so small you can carry them in the palm of your hand! Take them with you anywhere – no more hauling around heavy, bulky power supplies.

**Lightweight** – The 25 Amp *MightyLites™* weigh in at under 4 lbs. which is 4 to 5 times lighter than an equivalent conventional design power supply. The 45 Amp model is just 5.5 pounds!

**No RF Hash** – Some switching power supplies generate objectionable RF hash in your transmitted and received signal. But these babies are clean!

**Low Ripple and Highly Regulated** – Less than 35 mV peak-to-peak ripple and better than 1.5% regulation under full load.

**Fully Protected** – You won't burn up these power supplies! They are fully protected with overvoltage and overcurrent protection circuits.



4225MV

**Worldwide Versatility** – Switchable AC input voltage handles 85-135 or 170-260VAC.

**Mighty Features** – Model 4225MV and 4245MV feature a front-panel voltage control which varies output voltage from 9 to 15VDC. Front-panel mounted 5-way heavy-duty binding posts and cigarette lighter socket for mobile accessories. The 4245MV has two sets of quick-connects on the rear for accessories. Dual 3 in. illuminated meters monitor load voltage and current. Internal fan.

**4125 (left)** – Basic, no metering, 25 Amps maximum or 22 Amps continuous operation. Dim: 5.5" w x 2.5" h x 2.5" d; 3.5 lbs. .... **\$109.99**

**4225MV (center)** – 25 Amps max. or 22 Amps continuous. Dim: 5.75" w x 4.5" h x 6" d; 3.7 lbs **\$149.99**

**4245MV (right)** – 45 Amps max. or 40 amps continuous. Dim: 7.5" w x 4.75" h x 9" d; 5.5 lbs. **\$199.99**



4245MV

## Compacts for QRP



4103

4110

**4103 Compact Switching Power Supply** – For Yaesu FT-817, other QRP rigs and MFJ accessories. Input: 100-240VAC, Output: 13.8 VDC @ 2.89 Amps. Over-voltage, over-current, and over-temperature protected. Includes output cable with a 2.1 mm plug and adapter cable for FT-817. Dim: 2.63" w x 1.38" h x 4.13" d; 10 oz. .... **\$49.99**

**4110 Compact AC Power supply** – Includes a 2.9 Amp AC wall adapter and 13.8VDC Power Module. Perfect for QRP transceivers ..... **\$59.99**

## Conventional 30 Amp Power Supply

- Conventional, non-switching
- Massive 19.2 lb. transformer
- Adjustable 1 to 14 VDC
- Dual front panel meters

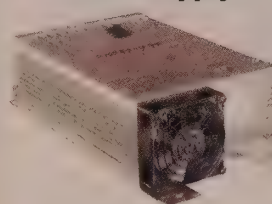
### 4035MV Super Heavy Duty!

Excellent for powering all types of amateur transceivers and accessories. Easily delivers 30 Amps continuous (35 Amps maximum) with regulation better than 1% and ripple voltage less than 30mV. Over-voltage, fold back and short circuit protected and variable-speed fan cooled. Plenty of connections – 3 sets of output terminals including a pair of Heavy Duty, 5-way binding posts for transceivers, 2 pairs of quick-connects for accessories and a cigarette lighter socket for mobile accessories. Dim: 9.5" w x 6" h x 9.75" d; 20.6 lbs. .... **\$159.99**



## AMERITRON

### 75 Amp Switching Power Supply



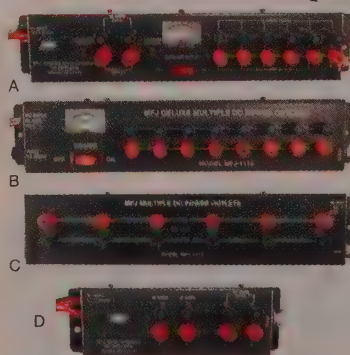
**SPS-75** – Power 500W solid-state amplifiers like the AMERITRON ALS-500M, SGC SG-500 and other high current devices. Rated at 75 Amps output continuously with less than 100mV peak-to-peak ripple under 75 Amp full load and regulation better than 1.5%. Has reverse polarity protection, brown out input protection, over-current and over-temperature protection. A quiet thermal-controlled fan keeps it cool. The *Output Boost* feature steps up output voltage from 13.8 to 14.2 VDC to compensate for power cable and connector loss. Input 108-132 VAC, 50/60 Hz (11 Amps). Can be used to conveniently charge vehicle and emergency back-up batteries. Dim: 6.5" w x 3.5" h x 10" d; lightweight, 7.8 lbs. .... **\$359.99**

## Can't find an MFJ item?

Give us a call at any **AES** location or email us online and we will get you price and availability!

This includes Ameritron, Hy-Gain, Mirage & Vecronics.

## MFJ High Current DC Multi-Outlet Strips



Distributes high current 12V DC power for radios and accessories from your station's main DC power source. Keeps everything neat, organized and safe by keeping wires from tangling and shorting out. All outlets fused, switched and RF bypassed.

**1118 (A) Deluxe Multiple DC Power Strip** – Distribute 12V DC to (2) radios and (6) or more accessories. Provides (2) pairs of heavy-duty 30 Amp, 5-way binding posts, all fused and RF bypassed, and (6) pairs of 15 Amp 5-way binding posts for accessories. Master fuse, on-off switch with power LED, built-in 25V voltmeter, 6 ft. 8 ga. cable. Dim: 12.5" w x 2.75" h x 2.5" d. .... **\$84.99**

**1116 (B)** – Like the 1118 but without 30 Amp posts. .... **\$59.99**

**1112 (C)** – Similar to the 1116 but without on-off switch, power LED, voltmeter or fuse. Dim: 12.5" w x 2.75" h x 2.5" d. .... **\$44.99**

**1117 (D)** – Like the 1118 but without meter, power LED or on-off switch. Powers up to (4) radios with (2) 35 Amp single posts and (1) 35 Amp dual post. Dim: 8" w x 2" h x 3" d. .... **\$64.99**



The Low Cost alternative to those "matching" Power Supplies



Input: 105-125V AC, Output: 13.8V DC, Internally adjustable from 11-15VDC.

Solid-state electronically regulated with fold-back current limiting and crowbar overvoltage protection. Heavy-duty heat sink. Three-wire AC power cord and chassis mounted fuse. One-year warranty- made in USA.

RS-20M, 35M, 50M and 70M have separate Volt and Amp meters. VS-20ML, VS-35M and VS-50M have separate V/A meters, plus 2-15VDC voltage adjustment. RM-35M, RM-50M and RM-60M are Rack Mount with separate V/A meters.

MODEL	Cont. Amps	ICS Amps	Dim: h w d (in.)	Shipping weight	PRICE
RS-7A	5	7	3.75 x 6.5 x 9	9#	\$69.99
RS-10A	7.5	10	4 x 7.5 x 10.75	11#	79.99
RS-12A	9	12	4.5 x 8 x 9	13#	89.99
RS-20A	16	20	5 x 9 x 10.5	18#	99.99
RS-35A	25	35	5 x 11 x 11	27#	159.99
RS-50A	37	50	6 x 13.75 x 12	46#	229.99
RS-70A	57	70	6 x 13.75 x 12	48#	289.99

Separate Volt & Amp meters

RS-20M	16	20	5 x 9 x 10.5	18#	129.99
RS-35M	25	35	5 x 11 x 11	27#	179.99
RS-50M	37	50	6 x 13.75 x 11	46#	259.99
RS-70M	57	70	6 x 13.75 x 12	48#	319.99

Adjustable output; separate Volt & Amp meters

VS-20ML	16	20	5 x 9 x 10.5	20#	149.99
VS-35M	25	35	5 x 11 x 11	29#	209.99
VS-50M	37	50	6 x 13.75 x 11	46#	279.99

Rack mount; separate Volt & Amp meters

RM-35M	25	35	5.25 x 19 x 12	38#	269.99
RM-50M	37	50	5.25 x 19 x 12	50#	319.99
RM-60M	50	55	7 x 19 x 12	60#	429.99

**RS-4L** - 13.8V DC @ 4 Amps ICS, 3 Amps continuous. Built-in cigarette lighter receptacle in the front panel. Dim: 3.5"h x 6.5"w x 4.25"d; 6 lbs. **Closeout \$39.99**

## SWITCHING POWER SUPPLIES

- Heavy Duty Design
- Low Profile
- Lightweight



**SS-25** - 12V DC, 25 Amps ICS, 20Amps continuous. Dim: 3"h x 7"w x 9.5"d; 4.2 lbs. .... **\$129.99**

**SS-25M** - Same as above but with Volt and Amp meters (pictured above) ..... **\$149.99**

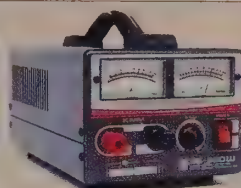
**SS-30** - 12V DC, 30 Amps ICS, 25 Amps continuous. Dim: 3.75"h x 7"w x 9.5"d; 4.5 lbs. .... **\$139.99**

**SS-30M** Same with Volt/Amp meters ... **\$159.99**

## POWER INVERTERS

**N2412-12** 28V Aircraft Converts 22 to 32V DC input to 13.8V DC output @ 10 amps. Eliminates tapping into 28V battery for 12V devices.. **\$59.99**

**N2412-24** - Same as above, rated at 20A **\$89.99**



SS-330W



SS-505

## SWITCHING POWER SUPPLIES

**SS-330W** Regulated, Variable Switching Power Supply - Provides 5 to 15 VDC at 30 amps continuous. Features: Dual meters indicate Volts/Amps; Binding posts on the front panel, Green power/Red protection LEDs; Detachable AC cord; Carrying handle; Built-in fan. Dim: 5.2"w x 4"h x 10.5"d; 4.3 lbs. .... **\$169.99**

**SS-505** Regulated, Variable Switching Power Supply - Recommended for those higher powered rigs like the 200W Kenwood TS-480HX that requires two 20-amp supplies or one bigger one weighing nearly 50 lbs. Provides 5 to 15 VDC at 50 amps continuous (55A max). Features: Dual purpose Amp/Voltage meter; Binding posts on the rear panel; Low amperage spring loaded terminals and cigarette lighter jack on the front panel; Green power/Red Protection LEDs; Carrying handle; Built-in automatic fan. Dim: 9"w x 5"h x 12.5"d; 8.4 lbs. .... **\$399.99**



## SWITCHING POWER SUPPLY



**GZV-4000** Switching Mode DC Power Supply with Built-in Speaker - 120V AC input with variable output 5 to 15V DC (knob has center detent at 13.5V DC), rated at 40 Amps continuous @ 100% duty cycle. Over temperature, overload and short-circuit protection with current foldback at approximately 42 Amps. Overload indicator; Selectable monitoring of voltage and current; DC terminals on rear, cigarette lighter jack on front; Filtered AC line. Dim: 8.25"d x 13"w x 4.5"h; 8 lbs. .... **\$179.99**



## Light Duty POWER SUPPLIES

### 38-384

**Light-duty DC Supply (right)** - Input: 115 V AC; Output: 13.8V DC regulated @ 4 Amps. Front On/Off, binding posts and LED indicator. Fused. Dim: 7.75"d x 4.75"w x 3"h; 5.5 lbs. .... **\$59.99**

### 38-305

**Universal AC/DC Adapter (left)** - Plug into outlet. Switchable, converts 115V AC to 3, 4.5, 6, 7.5, 9 or 12V DC @ 500 ma. max. Includes seven different DC adapter plugs, including one for Sony products ..... **\$14.99**

SAMLEX AMERICA

## SWITCHING POWER SUPPLIES

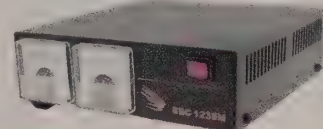
The "Power Supply choice of radio manufacturers worldwide"



**SEC-1223** 23A Switching Power Supply - The perfect lightweight companion for 100 Watt-Class transceivers. Input: 110-120VAC, Output: 13.8VDC @ 23 Amps. UL approved. Also works on 200 to 240VAC input with a simple jumper change. Safety features include current limiting, short circuit and overvoltage protection. Quiet, thermal activated cooling fan.

3-year warranty - "no questions asked"

Dim: 7"w x 2.1"h x 7.1"d; 3.3 lbs. .... **\$99.99**



**SEC-1235M** - This unit has the same dimensions as model SEC-1223 above. 100-130VAC, 13.8VDC.

- Best power supply value available today
- 30 Amps continuous, 35 Amps intermittent
- 3 year warranty - "no questions asked"
- Thermal activated fan. No hash
- UL + cUL Safety approved, FCC compliant
- Fully protected - voltage, current, short-circuit
- Perfect for all 100-200 Watt applications

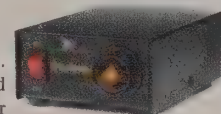
Dim: 7"w x 2.1"h x 7.1"d, 4 lbs. .... **\$139.99**

**SEC-1235** - Same as to 1235M above, but without Volt and Amp meters ..... **\$119.99**

### SPS-1204UL

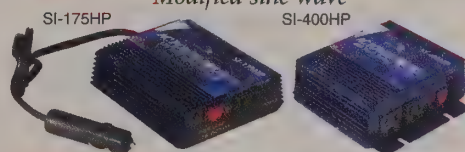
**Switching Power Supply**

Small and lightweight. Provides highly regulated power to a cigar lighter socket on the front panel and wire terminals on rear. Input: 110-125VAC, 13.8VDC output @ 3.5 Amps. Over-voltage protection and current limiting, illuminated on/off switch, UL and cUL approved. Dim: 2"h x 4"w x 6.3"d; 2 lbs. ... **\$29.99**



## DC to AC POWER INVERTERS

Modified sine wave



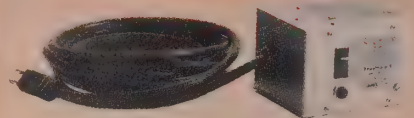
**SI-175HP** 175W 12VDC to 110VAC Inverter Useful anywhere when 110VAC isn't available in boats, RVs, emergency, etc. Uses high efficiency switching mode design with modified sine wave output voltage and low idle power draw (<0.05A). Overload protection, low battery alarm and shut down. Cigar lighter plug 10-15VDC input, 115V RMS output at 175W continuous, 350W surge. Dim: 1.6"h x 4.7"w x 5.4"d; 1.8 lbs. .... **\$29.99**

**SI-400HP** 400W 12VDC to 115 VAC Inverter Similar to the SI-175HP above, but higher 400W rating. Cigar lighter plug input connector and battery clamp included. Input Voltage: 10-15 VDC, 115V RMS output; 400W continuous, 800W surge. Dim: 2.4"h x 6.3"w x 6.3"d; 2.9 lbs. .... **\$49.99**



## POWER LINE SURGE SUPPRESSORS

**PolyPhaser**  
CORPORATION



An in-line Power line Extension Protector with multi-strike capability, filtering and proper grounding for a 120V AC line. Two grounded outlets, power switch, and circuit breaker. Heavy duty all aluminum grounded enclosure and power cord. Dim: 4.75 in. wide.

**PLDO-120US15A** - 15A, 15 ft. cord. C/O **\$119.99**  
**PLDO-120US20A** 6 ft. cord, 20A... **\$199.99**



**ISOBAR-8 ULTRA** Premium Surge, Spike and Noise Suppressor - 8 widely spaced outlets in 4 isolated filter banks provide a massive 1,200 joule, 96,000 Amp spike suppression and isolation between connected equipment. Rugged all metal housing won't break or burn. Diagnostic LEDs confirm power availability, line fault and protection status. Lighted On/Off switch and 15 Amp circuit breaker. Includes 12 ft. AC line cord with space-saving angled input plug, keyhole mounting tabs and child safety covers. Dim: 7.25"W x 2.25"h x 3.5"d ..... **\$79.99**



**SUPER-7** Protect it™ Surge Protector - 7 outlets including 3 transformer outlets. 2350 joule rating, handles strongest surges. On/Off switch, circuit breaker, "Connected" & "Grounded" LEDs, 7 ft. cord with right angle plug. **\$19.99**

**SUPER-7+TEL** - Same, but with additional surge protection for modem, fax or telephone.. **\$29.99**

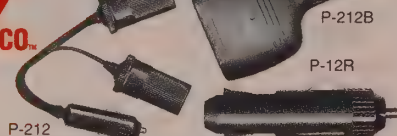
## AMERITRON

**In-Rush Current Protector**  
Limits initial Power On in-rush current and absorbs momentary voltage spikes.

**ICP-120** (110-120V) or  
**ICP-240** (220-240V) .. **\$79.99**



## POWER PLUGS / ADAPTERS



**P-212** 2-Outlet Cigarette Plug Adapter - Allows use of two 12V accessories from 1 outlet ..... **\$4.99**

**P-212B** Dual Cigarette Socket - Enables two 12 volt accessories to be used from one outlet, comes with replaceable 15 amp fuse ..... **\$8.99**

**P-12R** 2-Contact Cigarette Plug - Solder type with strain relief and grip end..... **\$2.99**

**P-12V** Cigarette Plug - Cigarette lighter plug similar to 12R but with connecting leads..... **\$2.99**

**P-12X** Cigarette Lighter Plug - Easy to use solderless plug. Wires crimp to terminals ..... **\$1.99**



**NCG™**  
COMPANY



Portable Power for emergencies, ham-fests, hiking, etc. The 12V @ 2 Amp/hour sealed lead-acid rechargeable battery provides up to 6x longer talk time than standard packs. Recharges completely in 6 to 8 hours with supplied charger. Partial discharges can be recharged to 100% without memory effect. Radio conveniently plugs into included female adapter socket. Includes a compact carrying case with belt loop and shoulder strap. Dim: 3.5"w x 1"d x 6.5"h, 30 oz... **\$66.99**

## Power Pocket

## RECHARGEABLE BATTERIES



MAHA MH-R-AA4  
MAHA AAA-T  
MAHA MH-9.6V200  
MFJ 92AA01

Maximum life • Memory-free operation  
Rechargeable hundreds of times  
Excellent for high current applications

### MAHA Rechargeables

**MH-R-AA4** - 4 pack of 1.2V 2700mAh rechargeable AA NiMH batteries in plastic case.... **\$16.99**

**AAA-T** - 1.2V, 1000mAh AAA NiMH..ea C/O **\$1.99**

**MH-9.6V200** - 9.6V, 230mAh NiMH C/O **\$12.99**

### MFJ Rechargeables

**92AA01** - NiMH AA's ..... each **\$3.49**

**92AA10** - Same as above.....10-pack **\$29.99**

## REPLACEMENT HT PACKS

MAHA's replacement battery packs can increase your handheld's performance up to two times. Refer to the Price Guide under MAHA for a list of packs for Yaesu, Icom, and Kenwood radios.

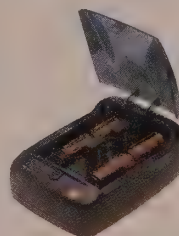


## MFJ

**850B** AC Line Voltage Monitor  
Plug into a wall outlet and monitor AC line voltage. The color coded scale lets you read from 95 to 135V AC. There's a built-in AC socket so you still have the outlet available. Dim: 2.75"w x 4"h x 1.1"d.... **\$24.99**

## 633 Intelligent Charger

Charges (2) or (4) NiCad and NiMH AAA, AA, C, D size batteries and (1) or (2) 9V. Ultra-fast, safe constant pulse current charging; IC detects both +DV and -DV, and monitors the voltage level during charging. **Discharge Mode** deep conditions to correct memory, and can rescue weak or dead batteries. Process ends with a final trickle charge. Use on 120 VAC or 12 VDC ..... **\$29.99**

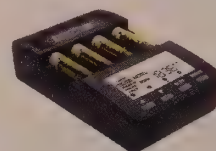


## MAHA CHARGERS



### MH-C801D Eight Cell One-Hour Charger

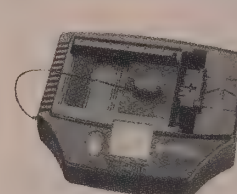
Features eight independent circuits that charge one to eight AA or AAA batteries in any combination. A large LCD screen displays the charging status of each battery (charge, done, conditioning, etc). Choose between a soft charge and fast charge mode. The soft charge delivers the highest battery life and allows 100% compatibility with older, lower capacity batteries. Fast charge allows eight batteries to be fully charged to their maximum capacity in around one hour. Conditioner will charge, deep-discharge and recharge batteries automatically. Includes a 110-240V switching power supply..... **\$84.99**



### MH-C9000

#### WizardOne Battery Charger & Analyzer

Charges, conditions, analyzes, cycles, forms and discharges (1) to (4) AA or AAA NiMH or NiCd batteries. Digital display of capacity and voltage on LCD screen. Standard charging, conditioning and discharging, plus "Break-In" mode performs a "forming" charge designed to properly break-in new batteries. "Cycle" mode allows user to charge and discharge batteries consecutively for up to 12 cycles. Independent negative delta V, temperature and timer protection eliminates over and undercharging. Light weight and small. Worldwide 100-240V switching adapter. Also works with 12V in a vehicle when used with a cigarette lighter adapter ..... **\$69.99**



MH-C777 PLUS II



MH-C888

**MH-C888** Universal Drop-In Rapid Charger and Conditioner - Incorporates special FLEX negative pulse feature to prevent crystallization when charging 4.8-12V NiMH/NiCad battery packs. Deep-conditioning feature does three consecutive charge and discharges before final charge. Built-in switching AC power supply and 12V cord .... **CLOSEOUT \$39.99**

**MH-C777 PLUS II** Smart Universal Charger and Analyzer/Conditioner - Charges most NiMH, NiCad, Li-ion and Li-polymer battery packs. Built-in circuitry with LCD status automatically senses battery voltage. Includes external 110V switching power supply and 12V cord with cigarette lighter; Discharge-only feature retains discharged battery capacity on screen; Enhanced Li-ion algorithm reduces charging time ..... **CLOSEOUT \$74.99**

### MH-K5000

#### One-Hour Travel Charger

Worldwide use with an integrated 100-240V, 50/60 Hz switching supply. Revives and conditions poorly performing batteries. Four charging phases: startup charge; rapid charge; top-off charge and maintenance charge. Leave batteries in for extended time without overcharging. Recharge (2) AA/AAA batteries in around one hour; (4) AA/AAA batteries in about two hours. Compact, 4 ounces. Includes (4) AA 2500 MAH NiMH batteries **CLOSEOUT \$39.99**







## RIGrunner

A convenient and safe way to connect to a 12V DC source and distribute it to all equipment, base or mobile. No messy binding posts, frayed wire connections, black tape or short circuits. Eliminates those wall warts.

- Now Anderson PowerPole® crimp or solder connectors provide a safe secure, hot connect, polarized, color keyed, genderless connector system
- 5 models, conservatively rated at up to 80 amps
- Each outlet is individually fused with an automotive ATC/ATO fuse. Open fuse LED shows status
- Conforms to ARES, RACES, RSGB and ARRL recommendation for high current 12VDC connectors

**RR/8012/C** Intelligent DC Power Panel, 12 Outlets, 80 Amps maximum – DC voltage monitor and alert, internally detachable 6 ft. 8 ga. power supply cable and 12 pair of Anderson Powerpole® crimp or solder connectors ..... **\$159.99**

**RR/4010S/C** DC Power Panel, 10 Outlets, 40 Amps maximum – One “always on” outlet and nine automatic or manually-controlled switched outlets. An on/off system controls entire station with the power button on your rig. Status LED and audio alert voltage monitor. Includes 6 ft. power supply cable and 12 pair of Powerpole® connectors..... **\$149.99**

**RR/4012/C** Intelligent DC Power Panel, 12 Outlets, 40 Amps maximum – LED voltage monitor indicates normal voltage, LEDs and audio alert for over or undervoltage conditions. Includes 6 ft. power supply cable with 12-pair of Anderson Powerpole® connectors. Dim: 11.8”w x 2.7”h x 1”d..... **\$129.99**

**RR/4008/C** 8 Outlets, 40 Amps maximum – LED and audio alert voltage monitor. For small or mobile installations or as expansion unit. 12-pair crimp or solder connectors. Dim: 5.75”w x 2.7”h x 1”d. .... **\$119.99**

**RR/4005/C** 5 Outlets, 40 Amps maximum – A DC power panel for small mobile installs or as expansion for existing panel. Includes 6 ft. supply cable and 6-pair of connectors. Dim: 5.75”w x 2.7”h x 1”d..... **\$84.99**

**WHAT/MTR** – Connects directly into any circuit equipped with Powerpole connectors. The LCD readout shows supplied Voltage, Amperage, Ampere/hours and Watts, automatically and simultaneously. Reads up to 60 VDC, 75 Amps and 94 Amp/hours. Dim: 3.8”w x 2.1”h x 0.9”d... **\$74.99**



## PG-40S Super PWRgate Backup Power System

A 12V backup power system that can supply up to 40 Amps continuously from either a power supply or a battery, and can also charge the battery. During AC power or power supply failure, connected equipment is instantly switched to battery back-up. To keep the battery fully charged and ready for use, the Super PWRgate has a built-in four-stage battery charger with selectable current rates of 1, 4, 7 or 10 Amps. Its optimized for use with GELLED & AGM type batteries, but will keep flooded lead acid and marine type batteries charged as well. The Super PWRgate and the power supply may also be used to charge a battery that is powering the radio. Output is via Anderson 40 Amp Powerpoles® connectors, not supplied. Dim: 5.25”w x 3.90”d x 1.65”h, 0.9 lbs..... **\$139.99**

www.westmountainradio.com



C30/PK/12  
C45/PK/12

PWR/TOOL

## Anderson PowerPoles®

**C30/PK/12** – 30A PowerPoles® .... 12 pair **\$12.99**

**C45/PK/12** – 45A PowerPoles® .... 12 pair **\$17.99**

**PWR/TOOL** Powerpole® Crimp Tool – Crimps 15, 30 & 45 Amp contacts. Ratcheted for high strength, low resistance crimps every time..... **\$54.99**

## CBA-2 Computerized Battery Analyzer

Test virtually any type or size of battery, any chemistry, any number of cells up to 48 Volts. Capable of up to 40A or 150W, whichever is higher. Determines A/H battery capacity, and displays voltage versus amp-hours which may be saved and printed. Quiet fan cooling and LED status indicators. Works plug-and-play with your computer. Includes program on CD-ROM and 6 ft. USB cable **\$119.99**

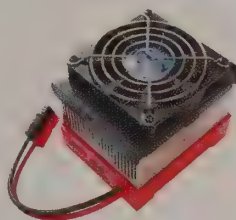
**CBA/TEMP** Temp Probe for CBA-2 ..... **\$12.99**

**RT-1** RigTalk USB to serial converter with TTL output – Provides USB Serial control or programming of any radio with a TTL level interface, CAT or CI-V. Compatible with USB 2.0 or lower.

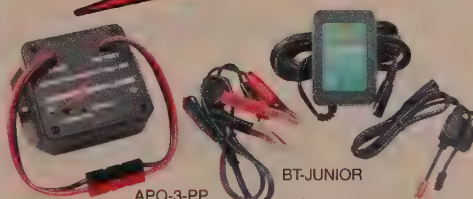
Convenient pocket sized USB dongle design. Comes with a CD-ROM provides plug and play installation and includes a collection of software. Cables available for all ICOM and TEN-TEC CI-V controllable radios and YAESU CAT..... **\$54.99**

**CATMINI/CBL** Yaesu Cable for RT-1 ..... **\$13.99**

**CIV/CBL** ICOM/TEN-TEC Cable/RT-1 ..... **\$9.99**



## powerwerx.com



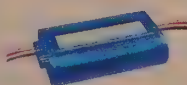
APO-3-PP

BT-JUNIOR

**APO-3-PP** Automatic Power Off Switch – Prevents vehicle battery discharge. Automatically switches radio off 5, 10 or 20 minutes after the vehicle is shut off. Input: 7 to 20V DC @ 30 amps holding/20 amps switching. PowerPole equipped ends. Dim: 3.3”h x 4.75”w x 1.35”d, 5.5 oz **\$59.99**

**BT-JUNIOR** Battery Tender Junior Jr. – A 110 VAC to 12VDC @ 0.75A trickle charger to keep your lead-acid, flooded or sealed maintenance free batteries (AGM and gel cell) battery fully charged. Four-step charging program (Initialization, Bulk Charge, Absorption Mode, Float Mode). Reverse polarity protected; 12 ft. output cord. Dim: 3.3”w x 2.3”h x 1.8”d..... **\$29.99**

**“Watt’s Up” Meter** – Install in a PowerPole® equipped circuit and measure eight parameters: Amp hours, Watt hours, voltage, Watts, peak current, peak power and voltage sag. PowerPoles are installed on both ends..... **WATTBLUPPC \$59.99**



## DC Power Connections

**C20-5** Cigarette Lighter Plug (A) – 5 ft. fused (15 amp AGC) to OEM-T Male plug ..... **\$14.99**

**C2P-5** Cigarette Lighter Plug (B) – 5 ft. fused (15 amp AGC) to Powerpole..... **\$14.99**

**P20-5** (C) – 5 ft. Powerpole to OEM “T” Male connector, 15 amps ..... **\$14.99**

**SOC-PP** (D) – 1 ft. Cigarette Lighter Socket, internal ATC 15 amp fuse, Powerpole end ..... **\$14.99**

**PSC-10** (E) – 6 ft., 10 gauge Power Supply Cable with 45 amp Powerpoles and 1/4 inch gold plated Ring terminals..... **\$13.99**

**RGH-10** (F) ATC-style 10 gauge fuse holder with 45 amp Powerpoles mounted on one end and gold-plated 1/4” ring terminals on the other. Includes (2) 40 amp ATC fuses..... **\$14.99**

**RGH-12** (F) ATC-style 12 gauge fuse holder with 30 amp Powerpoles mounted on one end and gold-plated 1/4” ring terminals on the other. Includes (2) 15 amp ATC fuses..... **\$12.99**

**PPH-10** (G) ATC-style 10 gauge fuse holder with 45 amp Powerpoles mounted on each end. Includes (2) 40 amp ATC fuses..... **\$14.99**

**PPH-12** (G) ATC-style 12 gauge fuse holder with 30 amp Powerpoles mounted on each end. Includes (2) 15 amp ATC fuses..... **\$12.99**

## Red/Black DC Zip cord

Made for use in 12-volt DC power applications with extra flexible soft bare copper stranding for maximum flexibility and conductivity. The automotive grade PVC insulation is oil, gas resistant and usable over a -40 to 175°F range.



**RB-12-25** 25 ft. 12 gauge ..... **\$22.99**

**RB-14-25** 25 ft. 14 gauge ..... **\$14.99**

## PowerPole® Connectors

High current, low loss electrical connectors which can be soldered or crimped. The 30 Amp rated terminals fit 18 to 12 ga., and 45 Amp rated, up to 8 gauge wire. ARES, RACES, RSGB accepted.

**PP30-10** 10 pair 30A Powerpoles..... **\$9.99**

**PP30-25** 25 pair 30A Powerpoles..... **\$19.99**

**PP45-10** 10 pair 45A Powerpoles..... **\$14.99**

**PP45-25** 25 pair 45A Powerpoles..... **\$29.99**

**PP75-08-2** 2 pair 75A Powerpoles, 8 ga. **\$7.99**



## Red-Dee-2™ Power Splitters

Power distribution when using PowerPole® equipped cables. Minimum power loss and convenience. All are rated to handle 45 amps @ 58 VDC. Not fused.

**PS-4** (A) ..... **\$14.99** **PS-6AA** (C) .... **\$31.99**

**PS-4 Plus** (B) **\$14.99** **PS-8** (D) ..... **\$24.99**

## CT-2 Crimping Tool

for 15, 30 & 75 amp PowerPoles ..... **\$12.99**





NOTE: 10/12 meter Modification Kits for Ameritron Amps are available to licensed Hams direct from Ameritron.

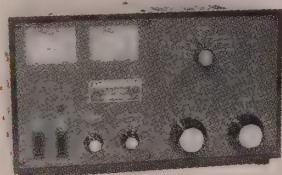


### AL-811/H 811A HF Amplifiers

- Covers 160-15M, including WARC band
- HD silicon steel core Plate Transformer (17 lbs.)
- Tuned Input; ALC Control; Quiet Air Cooling
- 5-second Warm-up Time
- Dual Meters (Plate Voltage, Grid and Plate Current); Vernier Reduction tuning
- Dim: 15.5" d x 13.75" w x 8.25" h; Weight: 32 lbs.

**AL-811** - Uses (3) 811A tubes. Delivers 600W PEP output SSB/500W CW. 80W drive ..... **\$719.99**

**AL-811H** - Uses (4) 811A tubes. Delivers 800W PEP SSB/600W CW. 100W drive ..... **\$869.99**

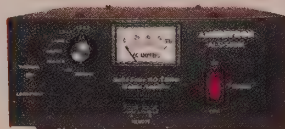


### AL-80B 3-500Z HF Amplifier

- Covers 160-15M, including WARC bands
- A Full KW PEP! (70% efficiency)
- HD silicone steel core Plate Transformer (26 lbs) and Computer Grade capacitors
- Tuned Input; Adjustable ALC; Air Cooled
- Dual Cross-needle meters (SWR, PEP power, Plate voltage, Grid and Plate current)
- Operates from 90-140VAC or 205-250VAC
- Dim: 15.5" d x 14.5" w x 18.5" h; Weight: 48 lbs.

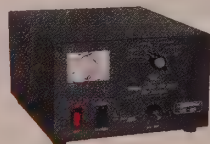
**AL-80B** - Uses a single 3-500Z transmitting tube. Delivers 1000W PEP output SSB/850W CW. The high-voltage secondary can be wired to reduce plate voltage for efficient operation below 400W for use outside the USA..... **\$1349.99**

### Solid State HF Mobile Amplifier



**ALS-500M** - Increase your HF mobile power up to 500W PEP / 400W CW with continuous coverage 1.5-22 MHz. Uses (4) 2SC2879 solid-state devices. Instant bandswitching, no tuning, no warm-up and SWR protection. Runs nicely from 13.8 VDC mobile electrical system drawing 80 Amps peak current. Dim: 3.5" h x 9" w x 15" d; 7 lbs..... **\$749.99**

**ALS-500RC** Remote Head - For ALS-500M amplifiers SN:13049 & up. Features: Band select, On/Off switch, current meter and TX/overload LEDs. **\$49.99**

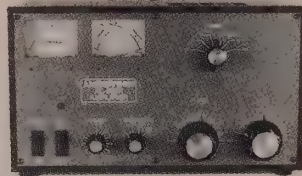


### Solid State Base Amplifier

**ALS-600** - No warm up, no tune up, just turn on, select band, and operate. Uses (4) 2SC2879 solid-state devices with 600W PEP / 400W CW output and continuous coverage 1.5-22 MHz. SWR and power protection. Includes separate AC power supply. Dim: 6" h x 9.5" w x 12" d, 30 lbs ..... **\$1299.99**

**ALS-600S** - Similar but with ALS-600SPS lighter weight switching power supply, 22.5 lbs **\$1399.99**

## AMERITRON



### AL-800/H 3CX-800A7 HF Amplifiers

- Cover 160-15M, including WARC bands
- HD silicon steel core Plate Transformer (32 lb.)
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-Needle meters show SWR, Plate voltage, Grid and Plate current
- Operates on 90-140 VAC, 200-250 VAC
- Dim: 8.5" h x 16.5" w x 13.75" d; Weight: 52 lbs.

**AL-800** - Uses as a single 3CX-800A7 tube. Delivers 1250W PEP SSB output..... **\$1899.99**

**AL-800H** - Uses (2) 3CX-800A7 tubes. Delivers 1500W PEP SSB output..... **\$2829.99**



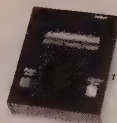
### AL-572 572B HF Amplifier

- Covers 160-15M, including WARC bands
- Heavy Duty silicone steel core Plate Transformer
- Instant 3-second Warm up Time
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-needle meters show SWR, Plate voltage, Grid and Plate current
- Multi-voltage Operation
- Size: 8.5" h x 15.5" w x 14.5" d; Weight: 40 lbs

**AL-572** - This Near Legal Limit™ amplifier uses (4) rugged 572B tubes. Delivers 1300W PEP SSB and 1000W CW continuous output for about 65% of the price a full legal limit amplifier ..... **\$1599.99**

Various "Plug & Play" Interface Cables  
for Ameritron Amps - See Page 4 in the Price Guide

### Amplifier Accessories



ATP-100/102



ARB-704



QSK-5

#### ATP-100

**Tuning Pulser** - Pulses your transceiver to safely tune up your RF power amplifier. Prevents overheating, tube damage, power supply stress ..... **\$69.99**

**ATP-102** Deluxe Tuning Pulser - Similar but with variable pulser and delay ..... **\$79.99**

#### QSK-5

**Pin diode T/R Switch** - Faster than a vacuum relay. Connects externally to HF RF power amplifiers. Handles 2.5 KW PEP/2 KW CW ..... **\$339.99**

**QSK-5PC** - PC board version of QSK-5 .. **\$259.99**

**CF-5** Cooling Fan - for QSK-5 ..... **\$39.99**

#### ARB-704

**Interface Buffer** - Prevents damage to radio's internal relay contacts resulting from keying amplifiers with too much control voltage, excessive current or voltage spikes on the relay control line. Compatible with transceivers that provide a ground on transmit. Use **ARB-704I2** for IC-706/7000 only ..... ea. **\$59.99**

## Super Legal Limit HF Amplifiers

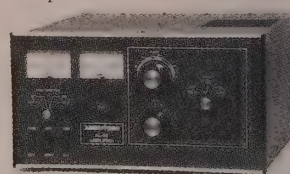
- Cover 160-15M, including WARC bands
- Strong Stainless Steel Chassis
- Highly efficient tape wound Hypersil® Plate Transformer, capable of 2500W
- Grid and Plate meters show drive, ALC, Power output and PEP Watts
- Dim: 18" h x 17" w x 10" d; Weight: 77 lbs.



**AL-1500** - Uses a single 3CX-1500A/8877 ceramic tube. Only 65W of drive power delivers full legal 1500W CW output. Time-delayed start protects the tube and over-current shut-off removes the drive if amplifier is mistuned ..... **\$3049.99**

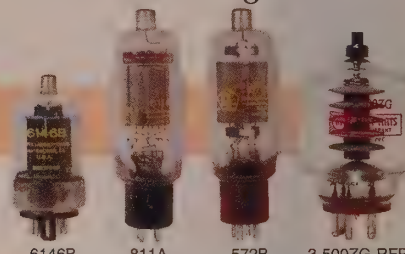


**AL-1200** - Uses Ham radio's toughest tube, the Eimac® 3CX1200A7. It has a 50W control grid dissipation and can deliver more than 2500W two-tone output for 1/2 hour. 90W drive. **\$2999.99**



**AL-82** - Uses a pair of 3-500Z Graphite tubes. Delivers a full 1500W output which is more than other 3-500Z linears because their lighter weight power supplies can't use these tubes to their full potential. 100W drive typical, 130W max.. **\$2399.99**

### Transmitting Tubes



6146B

811A

572B

3-500ZG-RFP

**6146B** Beam-power Pentode - Replacement finals for older ham gear: B&W, Collins, Globe, Hallicrafters, Heathkit, Johnson, etc. Rig may require minor alignment..... **\$29.99**

**811A** Power Triode - For Ameritron, Collins, Heath and other power amplifiers..... **\$19.99**

**572B** High-mu Power Triode - A direct drop-in replacement in equipment using the 811-A or T-160. Uses a graphite anode with a 160W average plate dissipation, that provides enhanced overload capability and enhanced reliability ..... **\$59.99**

**3-500ZG-RFP** Power Triode - Mechanically and electrically, an exact copy of the Eimac 3-500ZG. Has high-dissipation graphite anode..... **\$199.99**

**12BY7A** Sharp-Cutoff Pentode - Used as the driver in older Kenwood and Yaesu transceivers ..... **\$34.99**





## HF POWER AMPLIFIERS



**PW-1 HF/50 MHz Linear Amplifier** – Covers 160 to 15M and 6 Meters. Power output with 100W drive is 1000W SSB/CW & RTTY when powered with 80 to 264V AC or 500W with 90-132V AC; 100% duty cycle, QSK. Features include: Automatic band change, Built-in all band automatic antenna tuner, Automatic AC voltage selector, Current, voltage, temperature, high SWR and output power protection, Wide range ALC that adjusts to almost any rig. The control head is detachable and remoteable. Built-in power supply. Two exciter input connectors and 4 output connectors. Comes with controller separation cable, ACC cables, coax jumper with PL-259s. Dim: 14" w x 10.5" h x 14.5" d; 56 lbs..... **\$4699.99**

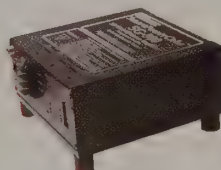


### VL-1000/VP-1000 QUADRA SYSTEM

HF/50 MHz Linear Amplifier with Automatic Antenna Tuner and Switching Power Supply. Covers 160 to 15 Meters, plus 6 Meters. Solid-state design uses MRF-150 MOSFET devices in a four unit push-pull configuration to produce 1000W SSB/CW output (500W SSB/CW/FM on 6 meters) with 80W of drive. No tune-up automatic bandswitching with FT-1000, FT-1000MP, FT-1000MP MK-V, MK-V FIELD, FT-920, FT-2000 series and FT-9000 series. 16-bit Control CPU provides high speed antenna tuning with memory. The large dot-matrix LCD provides amplifier status information, including peak and average power output, voltage, current, and a panoramic SWR monitor, displaying "before tuning" and "after tuning" SWR information. Two input and four output antenna jacks output jacks for versatile equipment and antenna configurations. Dim: (Amp) 16.25" w x 5.9" w x 17.7" d, 46.3 lbs. (PS) 16" w x 5.9" h x 15" d, 32.2 lbs..... **\$3899.99**



### 52-96 SG-500 SMARTPOWER CUBE™ Microprocessor Controlled Linear Amplifier



For 500W operation on your Base station or Mobile. Designed for maximum reliability and for unattended operation where access is limited. Microprocessor control automatically selects band; adjusts amplifier input sensitivity; monitors all parameters for faults (heat, high VSWR, under voltage, etc.); automatic shutdown at fault. Front panel LED status indicators. The most advanced self-protection on the market. Covers 1.6 to 30MHz, rated at 500W PEP SSB and 500W CW (with optional fan) with 80W drive. Less than 1 cubic foot of space. Requires 14VDC 40A average (SSB), 90A peak Dim: 6.1" h x 11.5" w x 12.25" d; 21 lbs. **\$1349.99**

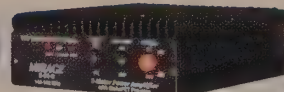
## MIRAGE VHF & UHF POWER AMPLIFIERS



B-2518G



B-34



B-34G



B-24G

Mobile or Base Operation • Wide range of input and output levels • FM, SSB & CW modes (FM only, some models) • Built-in high-gain low-noise GaAsFET receive preamplifier on several models • Rugged construction, heavy duty heat sink • Protection for high SWR, overdrive and overheating • Remote control capability with optional remote head

Model	Frequency Range	Modes	Power Input	Maximum Output	Volts DC	DC Amps	Pre Amp	AES PRICE
<b>6-Meters</b>								
<b>A-1015G</b>	50-52	SSB/CW/FM	1-15W	150W	13.8	20	Yes.....	<b>\$359.99</b>
<b>2-Meters</b>								
<b>B-34</b>	144-148	FM	1-8W	35W	13.8	4	No .....	<b>\$99.99</b>
<b>B-34G</b>	144-148	SSB/CW/FM	1-8W	35W	13.8	4	Yes .....	<b>119.99</b>
<b>B-1018G</b>	144-148	SSB/CW/FM	0.25-15W	160W	13.8	30	Yes .....	<b>369.99</b>
<b>B-2518G</b>	144-148	SSB/CW/FM	10-30W	160W	13.8	30	Yes .....	<b>299.99</b>
<b>B-2530G</b>	144-148	SSB/CW/FM	10-35W	300W	13.8	48	Yes .....	<b>679.99</b>
<b>B-5018G</b>	144-148	SSB/CW/FM	20-60W	160W	13.8	30	Yes .....	<b>299.99</b>
<b>B-5030G</b>	144-148	SSB/CW/FM	20-60W	300W	13.8	48	Yes .....	<b>669.99</b>
<b>B-310G</b>	144-148	SSB/CW/FM	0.25-8W	100W	13.8	15	Yes .....	<b>219.99</b>
<b>B-320G</b>	144-148	SSB/CW/FM	0.25-50W	200W	13.8	25	Yes .....	<b>459.99</b>
<b>222-225 MHz</b>								
<b>C-1022G</b>	222-225	SSB/CW/FM	1-10W	220W	13.8	48	Yes .....	<b>\$699.99</b>
<b>C-2512G</b>	222-225	SSB/CW/FM	1-40W	120W	13.8	25	Yes .....	<b>309.99</b>
<b>430-450 MHz</b>								
<b>D-1010N</b>	430-450	SSB/CW/FM	0.3-15W	100W	13.8	15	No .....	<b>\$379.99</b>
<b>D-3010N</b>	430-450	SSB/CW/FM	5-45W	100W	13.8	20	No .....	<b>349.99</b>
<b>D-1010ATVN</b>	420-450	ATV	1-15W	52W	13.8	20	No .....	<b>399.99</b>
<b>DUAL BAND (2M/440 MHz)</b>								
<b>BD-35</b>	144/440	FM	0.3-7W	45/35W	13.8	7	No .....	<b>\$169.99</b>
<b>HT DOCKING BOOSTER</b>								
<b>B-24G</b>	144-148	FM	1-5W	50W	13.8	7	Yes .....	<b>\$109.99</b>

N = Type-N connectors

## REPEATER AMPLIFIERS

CONTINUOUS DUTY  
all mode FM/SSB/CW for 6 & 2M, 220 MHz & ATV  
All Models are Special Order

Model	Frequency Range	Power Input	Max Output	Volts DC	DC Amps	AES PRICE
6-Meters						
A-1015R	50-54	3-4W	110W	13.8	16-18	\$529.99
A-1015NR	Same as C-1015R but Type-N connector					549.99
220MHz						
C-211R	223-225	0.3-0.6W	80W	13.8	15-16	\$599.99
C-211NR	Same as C-211R but Type-N connector					619.99
C-1012R	222-235	5W	90W	13.8	16-18 ..	599.99
C-1012NR	Same as C-1012R but Type-N connector					619.99
C-2512R	223-225	13-15W	90W	13.8	13-14 ..	569.99
C-2512NR	Same as C-2512R but Type-N connector					589.99
440 MHz						
D-1010NR	440-450	2-4W	80W	13.8	14-15	\$629.99
D-3010NR	440-450	10-12W	80W	13.8	11-1....	599.99
430 MHz (AMATEUR TELEVISION)						
D-1010ATVNR	420-450	2-4W	80W	13.8	14-15	\$629.99



**LOW NOISE RECEIVE PREAMPS**  
High gain ultra low noise GaAsFET preamps boost weak signals on VHF and UHF for improved reception and compensation for feedline loss. Provides 15-22 dB Gain with < 0.8 dB NF. Selectable gain prevents receiver intermodulation. In-line installation, automatic T/R switching up to 160 Watts. In-shack or outside mast mount, type-N connectors. Requires 12-15V DC. Dim: 4.25" w x 2.3" h x 0.9" d

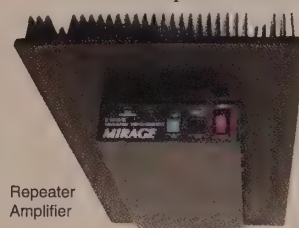
In-Shack Models – **\$139.99** each  
**KP-1/6M** (50-54) / **KP-1/2M** (144-148)  
**KP-1/440** (430-450 MHz)  
Mast Mount Models – **\$184.99** each  
**KP-2/6M** (50-54) / **KP-2/2M** (144-148)  
**KP-2/440** (430-450 MHz)



## REMOTE CONTROL HEADS

**RC-1** – Remote control for amplifier functions: Power On/Off, Preamp On/Off, SSB or FM mode. Includes 25 ft. control cable. Dim: 1.75" h x 3.75" w x 2.5" d .....

**RC-2** – Use with model 5018G, 2518G & 1018G amplifiers. **\$49.99**



Repeater Amplifier





## Microphones • Microphone Element • Accessories



### GM Series

Provides full-range, smooth and articulate audio for AM, FM and "Hi-fi" SSB. The wide 60-16 kHz frequency response, with a +4 dB midrange peak @ 2kHz, produces brilliant articulation for clear, understandable SSB audio, and adds a well-balanced robust low end. There's a second switch selectable HC-4 or HC-5 element to provide *extra punch* when needed. A "soft touch" microswitch provides smooth, noise-free PTT operation. The die-cast body is finished in high luster black lacquer and topped with a golden grill. Requires a CC-1 adapter cord.

**GM-4** GM with Full Range and HC-4 elements..... **\$145.99**  
**GM-5** GM with Full Range and HC-5 elements..... **\$145.99**

### HM-10-DUAL

The great sounding Heil microphone that has been on the Ham bands for years. The HM-10-Dual has both the HC-5 "Full Range Articulation" element that makes your rig sound better and more intelligible and HC-4 "DX Dream Machine" elements, switch selectable. Requires a CC-1 adapter. **HM-10-DUAL** . **\$128.99**

### PRE-PRO ICOM

Built with a special electret condenser element that provides plenty of output, great sound and punch for the older ICOMs that are low in mic gain. Platinum finish, soft touch PTT switch. Includes an 8-pin ICOM mic. cable. **ICM**.... **\$105.99**

### CLASSIC

A 1930's RCA 74B exact replica, all metal construction. Dual elements, featuring a broadcast dynamic element, and choice of the second (HC-4 or HC-5) communications element. Element switch and soft touch PTT on the back panel. Select 600 or 30k ohms impedance. The stainless steel trimmed cast steel base and the logo rotates for boom mounting. Call letters available from Heil after purchase. Shown with CB-1 stand, not included. Requires a CC-1 adapter cable.

**HCL-5** (with HC-5 element) ..... **\$245.99**  
**HCL-4** (with HC-4 element) ..... **CLOSEOUT \$169.99**

### STUDIO

**PR-20** Proline Dynamic Cardoid Microphone - For commercial broadcast and live sound reinforcement applications which require a smooth flat 40 Hz-18 kHz response. 5/8" x 27 mount assembly ..... **\$150.99**

**PR-40** Large Dia. Studio Microphone - New element technology with a response from 28-18 kHz with a mid-range rise for gorgeous vocal articulation .... **\$325.99**

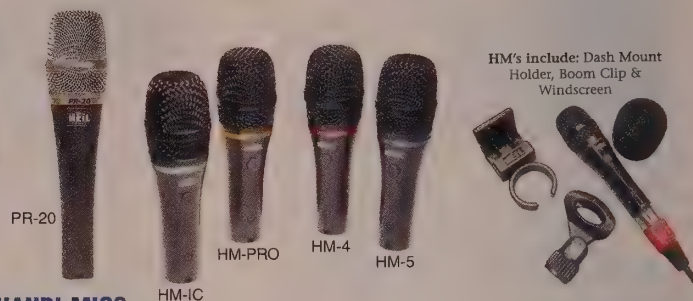
**PR-781** Proline Dynamic Microphone - Features full-bodied tone quality, with crisp high-frequency articulation. Works well with the Yaesu FT-1000MkV, FT-DX9000, Kenwood TS-2000/870/850, the Icom IC-7800 and all of the PRO models. Balanced 600 ohms, 3-pin output, requires a CC-1 XLR cable. Black satin epoxy finish. Comes with an SM-3 mount, does not include base ..... **\$179.99**

### Those Heil HC Elements...

Heil's HC-5 element makes your rig sound better and more intelligible to the listener by providing full articulation and more clarity than a stock microphone. A 350 to 4000 Hz response with a sharp roll-off under 300 Hz and above 3100 Hz, with a peak @ 2100 Hz produces very clear, easy-to-understand audio that will get you lots of compliments.

Their HC-4 element produces super audio clarity with more PUNCH for difficult conditions like contests, DX & weak-signal VHF/UHF work. Produces outstanding results on pile-ups, aurora and backscatter where SSB signals need maximum penetration and intelligibility. Features a 500 to 3800 MHz response with a 10dB peak @ 2000 Hz and 12 dB roll-off @ 500 Hz. This results in very sharp sounding audio that really penetrates and conveys information under difficult conditions, but is not real pleasing to the listener for full time use.

*A satisfied HEIL user...*  
*Joe Walsh, WB6ACU*



### HANDI-MICS

Here are four clean and clear sounding Handi-Mics; each for different applications, mating to different rigs and inputs. A very comfortable tactile PTT switch is incorporated on four of the models. Only 4 in. tall, and the required Heil CH-1 series shielded cables are 4 ft. long (2 ft. coiled, 2 ft. straight). Includes a unique dash mount holder, boom clip and a windscreen.

**HM-4** with HC-4 DX element and PTT button..... **\$85.99**  
**HM-5** with HC-5 Full Range element and PTT button..... **\$85.99**  
**HM-IC** with Electret element, for most ICOM rigs and PTT button..... **\$85.99**  
**HM-PRO** with wide range Broadcast element and PTT button..... **\$85.99**



### BASES, BOOMS & MOUNTS

**CB-1-PTT** Classic Base with soft PTT switch ..... **\$70.99**

**TM-1** Tri-Mount - Holds up to three microphones on 5/8" x 27 thread mounts for convenient multi-rig operation ..... **\$14.99**

**SM-1** Spider Shock Mount - For GM, HM or "icm" microphones. An 8-point flexible suspension supports and isolates microphones from mechanical vibrations. The 3/8" x 27 threads mount to the PL-2T or other microphone stands and booms. Give your shack a great "studio" look! ..... **\$72.99**



**PL-2T** "Topless" Pro Studio Boom - Features a perfectly balanced arm with silent internal springs and removable tops that simplify hiding the microphone cord inside the channels. It puts the microphone right where you want it, providing a 41 in. reach. Balanced for microphones up to 2 lbs. Comes with a "C" clamp table mount. Accepts 5/8" x 27 threaded microphones - or for real class, attach a Heil SM-1 Ultimate Shock Mount System..... **\$109.99**

**SB-2** Small Microphone Boom Extends from 10 to 24 in., with angle adjustments for positioning. Has a standard 5/8" x 27 thread microphone mount and secures to an edge with a "C" clamp, or into a 1-3/8" hole..... **\$55.99**

**DT-1** Desk top Flush Mount - Allows Heil booms to slip into into a 1-1/2" hole drilled into your desk top ..... **\$31.99**

**FL-2** Flange Mount - Mounts PL-2T directly to desk top..... **\$25.99**

**RS-1** Riser - A 12 in. high flange mount that allows the PL-2T studio boom to mount elevated BEHIND the radio so the boom can be brought down into position OVER the radio ..... **\$25.99**

### ACCESSORIES



See Heil on Page 10 in the Price Guide for Adapter Cables and Accessories



## Headsets • Boomsets

## PRO-SET

A lightweight, versatile boom microphone/headset designed for comfort, durability, and performance. Meets the exacting standards of world-class Contest and DX operators. The earpieces are full sized, with heavily-stuffed cushions for operator comfort with covers that are removable for washing or replacement. Seals out noise, and includes Heil Sound's exclusive phase reversal technology, which changes the sound field from being "centered" in your head, to a spatially widened effect that can, in some situations, significantly improve copy. The Pro-Set is available in three versions: the Pro-Set 4 is supplied with the HC-4 "DX Dream Machine" element, the HC-5 full-range element, and the "IC" with a condenser element specially designed for Icom transceivers. The Pro-Set "IC" version is also shipped with the AD-1 Icom adapter cable; the Pro-Set 4 and 5 require an optional AD-1 adapter cable for Icom, Kenwood, Ten-Tec or Yaesu radios.

**PRO-SET-4** – with HC-4 element for DX punch ..... **\$140.99**

**PRO-SET-5** – with HC-5 "Full Range" element ..... **\$140.99**

**PRO-SET-IC** – with 'IC' Electret for Icom, adapter cable included. **\$150.99**

## PRO-SET PLUS

**PRO-SET-PLUS** Headset/Boom Microphone – Maximum comfort and noise seal is provided by full cover leatherette earpads with removable cotton covers. The cushioned inner headband is self-adjusting for a perfect fit, and the boom swings 180° for left or right side operation. Includes switchable, dual microphone elements; the Heil HC-5 for normal operation, the HC-4 for DX. The boom and top headband have rugged but flexible internal steel bands that can be adjusted as you wish. Great sound from tailored speakers mounted in tuned cavities. Phase reversal switch. Requires AD-1 cord. .... **\$215.99**

**PRO-SET-PLUS-IC** same, but for Icom. Includes adapter cord ..... **\$235.99**

## BOOMSETS

**Headset/Boom Microphones** – A lightweight, soft and comfortable boomset for prolonged use in contests, etc. The boom microphone is available with the Heil HC-5 "Full Range" or HC-4 DX element. The cord is wired with 1/4" stereo plug and 1/8" transmit audio plug and requires an AD-1 adapter cord.

**BM-10-4** with the HC-4 element ..... **\$110.99**

**BM-10-5** with the HC-5 element ..... **\$110.99**

**BM-10-IC** with Electret element for Icom, includes adapter cable **\$130.99**

## TRAVELER

**HTSS** Single-side Headset/Boom Microphone – Uses a high performance electret element and features Up/Down and PTT in-line switches and left or right side boom mount. A unique interface cable system utilizes various 3 ft. long patch cable to allow the TRAVELER to be used on over 100 different radios and many popular handhelds; see Price Guide for selection.. **\$75.99**

**HTDS** Dual Headset/Boom Microphone – The same features of the single side Traveler but with two headphones; uses the same adapters..... **\$95.99**

## QUIETPHONE

**HQP** Active Noise Cancelling Headset – Incorporates Heil noise reduction technology. Uses soft leatherette cushions with adjustable headband to insure most comfortable listening for extended periods of time. A single "AA" cell for 30 hours providing clean high fidelity dual channel audio. The right angle 1/8 in. plug works with most CD or MP-3 players and plugs into the audio jack located in the arm rest of commercial airliners. A 1/4 in. stereo adapter is included for use with your ham equipment, folds flat for carrying ... **\$99.99**

See Heil in the Price Guide page 10 for Adapter Cables

## KENWOOD

HS-6

HS-5

**HS-5 Deluxe Headphones** – Specifically designed for communications. Provides a natural sound and pads eliminate pressure permitting long hours of fatigue free listening. To increase the volume level when using in a noisy room or for privacy, you can replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug. Impedance: 8; Power: 200mW @ 1000 Hz max. input; Response: 150-4000 Hz; 13 oz. .... **\$79.99**

**HS-6 Lightweight Headphones** – Response: 100 to 10,000 Hz; Impedance: 12.5; 6 ft. straight cord with 1/4 in. phone plug; weighs 4 oz. .... **\$59.99**



**288 Deluxe Headset/Microphone** – Lightweight, comfortable for Yaesu, Icom and Kenwood units. Superb transmit audio, and earphone tonal quality. Foam covered microphone element is attached to headset with a flexible rubber boom allowing proper positioning. PTT switch on the 6 ft. cord, hold or attach to clothing ..... (specify radio) each **\$24.99**

**Featherweight™ Earphone/Microphone** Has an earbud earphone and a tiny thumb-sized microphone/PTT switch that's built into the 4 ft. cord. **292I** for Icom & older Yaesu. **292Y** for Icom Q7A, Yaesu FT-10R/40R/50R & VX series ... each **\$17.99**

**392B Headphones** – Perfect for Amateur and Shortwave listening. Superbly padded headband and ear cushions and only 8 oz. for comfort. High-performance drivers with full 20-20,000 Hz response provide enhanced sound and speech fidelity. Earphones have individual volume controls. Includes a 9 ft. cord with gold-plated plug and 1/4 in. plug adapter..... **\$24.99**

## HF-24RS

## Scanner Headphones

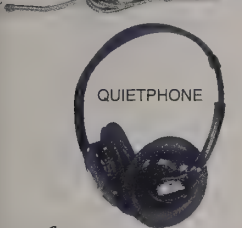
Designed for racing fans. Listen to driver to pit conversations with a scanner with reduced noise. Snug fit, cushioned headband and comfort fit cushions allow hearing action over crowd and engine noise. Dual volume control; 3.5mm plug with a 10 ft. coiled cord ..... **\$19.99**



## YAESU

## YH-77STA Stereo

**Headphones** – Impedance: 35 ohms; 4 ft. straight cord with 3.5mm plug and 1/4 in. phone plug adapter; weighs 4.4 oz. .... **\$59.99**



## The Latest Breakthrough for Mobile &amp; Portable Communications Safety...



**TS062801 TalkSafe™ for Mobiles** – Connects via cable to any Mobile or Base transceiver and provides safe and legal Wireless and Hands-free operation using a readily available Bluetooth® headset (not supplied). You'll have freedom of movement up to 32 ft. from your rig. Enjoy private conversations or activate the speaker. PTT is controlled via the headset's call Pick-up/Drop button. An adjustable Time Out Timer warns you of 'timeouts' on repeaters. Auto-Power off. Requires 10-16V DC and a radio-specific microphone cable which can be found in the the Price Guide under (TALKSAFE) page 21. Dim: 3.6" w x 2.5" h x 1.1" d ..... **\$182.99**

**TS062802 TalkSafe™ for Handhelds** – Operate your handheld radio using virtually any Bluetooth® headset (not supplied). The rechargeable battery powered unit attaches to your belt or waistband and connects to your radio via a radio-specific mic cable which can be found in the the Price Guide under (TALKSAFE) page 21. Enjoy the freedom of movement of Wireless and Hands-free operation. PTT operates using the call Pick up/Drop button on the headset. Co-exists alongside other Bluetooth® devices without interference. Dim: 2.6" w x 2.6" h x 1.1" d. .... **\$182.99**





## KOSS HEADPHONES



**QZ/5** Passive Noise Reduction - Isolates listener from noise sources like car and jet engines. Ideal for the race track and metal detection. Unique head-strap velcro design allows for secure fit. 60Ω impedance; 102dB SPL/1mW sensitivity; 40 to 20,000 Hz sensitivity; Volume control and Stereo/Mono switch; Single entry, 8 ft. coiled cord with 3.5mm plug; 15 oz. .... **\$49.99**

**QZ/50** Revolutionary Active Noise Reduction Reduces annoying low frequency sounds in noisy environments. Behind-the-head design provides comfort for extended wearing. Dynamic element, 30-20,000 Hz; 32Ω impedance; 98dB sensitivity; Single entry 8 ft. cord, with 3.5mm plug; Uses one AAA battery (not included); 2.5 oz. .... **\$49.99**

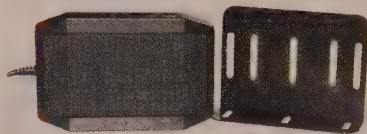


**QZ/99** Passive Noise Reduction stereophone with Mono/Stereo Switch - Frequency response: 40 to 20,000 Hz; Coiled, single entry, 8 ft. cord with 3.5mm and 6.4mm plugs; Sensitivity: 102dB SPL/1mW; Z: 60Ω; 15 oz. .... **\$59.99**

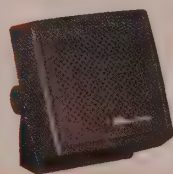
**KTX/8** Portable Stereophone - Dynamic elements extend frequency response from 40 to 20,000 Hz. Foam ear cushions for comfort and hear-thru sound. Volume control on the cord. Collapsible headband for storage and portability. 4 ft. cord with 3.5 mm "L" plug. .... **\$14.99**

**SPARKPLUG** Earbuds - A dynamic element is positioned just outside the ear and connected to a tubular port structure that is inserted into the ear canal. The soft foam ear cushion expands for a custom fit to improve isolation and enhance deep bass and treble clarity. Has a white cord to compliment many MP-3 players. Impedance: 16Ω; Frequency response: 10Hz to 20,000Hz; Sensitivity: 112dB SPL/1mW. Straight, dual entry, 4 ft. white cord. .... **\$14.99**

## SPEAKERS & DSP

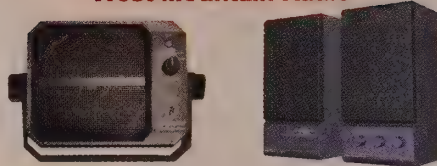


**KENWOOD**  
**SP-50B** Communications Speaker - Compact, designed for mobile operation. The metal enclosure houses a high quality 2.5 in. speaker rated for 1.5W with a 300 to 4000Hz frequency response. Dim: 4.8" w x 3.2" h x 1.4" d; 10 oz. .... **\$55.99**



**MIDLAND**  
**21-406** High Performance Mobile speaker - Clear, crisp sound. Z: 4Ω, 15W capacity. Dim: 5.5" w x 5.5" h. Swivel base, audio cord with 3.5mm straight plug. .... **\$22.99**

## West Mountain Radio



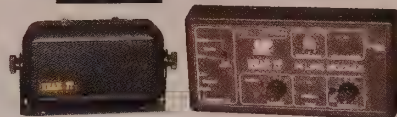
**CLR/SPKR** ClearSpeech® DSP Noise Reduction Speaker (left) - A 4 in. speaker with an Adaptive DSP Noise Reduction circuit and 2W audio amplifier. The DSP passes Voice and CW while hum, hiss, ignition and power line noise, static crashes and heterodynes are removed or greatly attenuated. Selectable 3-level noise reduction. Includes tilt mounting bracket, 6 ft. 12V DC power cable with Powerpole® connectors and 6-ft. audio cable with 1/8-in. plug. Rear jack for an external speaker connection; On-Off switch; LED power and input level indicators. Dim: 4.25" h x 5.25" w x 2.5" d. .... **\$219.99**

**CLR/DSP** ClearSpeech® DSP Noise Reduction Without speaker; 4 watt output. .... **\$219.99**

**CS-1** Computer Speaker System (right) - An RF Proof amplified stereo speaker system for your hamshack computer. Interference-free operation in close range of 1-1000MHz transmitters. Stereo, high-fidelity response for voice or music. Solid, resonance free, wooden cabinet. Complete with audio cables and wall power supply. Input: stereo line level 1/8" mini-jack; Output: nominal 3 Watts per channel. Dim: 8.375" h x 4.125" w x 5.25" d (each speaker), 72 oz. (complete). .... **\$39.99**



**Adaptive DSP Technology**



**HEAR IT** DSP Speaker (left) - Adaptive DSP Technology adapts to changes in background or man-made noise levels and attenuates it up to -20dB, resulting in cleaner audio. If your radio already has DSP, it will provide additional improvement in readability. If it doesn't have DSP, there will be a huge improvement. Eight user-selectable noise cancelling levels, or cancelling can be switched off entirely. Plug headphones or another speaker into the audio bypass jack and retain the DSP noise reduction feature. A built-in amplifier provides 2.5W of audio power. Requires 12-28VDC @ 500mA. Includes a 6.5 ft. lead with 3.5mm mono plugs. Dim: 4.5" w x 2.75" h x 2.25" d. .... **\$169.99**

**IN LINE MODULE** DSP Module (right) - Provides the same DSP features as the 'Hear it' speaker above, but without the speaker unit. Includes a built-in 5W audio amplifier for your station speaker. Has 3.5mm mono and RCA phono audio input and output jacks and headphone jack. Requires 12-24VDC @ 500mA. Includes a 3.5mm audio cable and fused power leads. Dim: 6.75" w x 3.35" h x 1.4" d; 1 lb. .... **\$219.99**

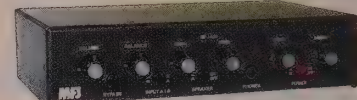


**70-14** - Delivers Adaptive DSP Noise Reduction for ANY transceiver. There are two pushbutton switches that toggle between 0, 13dB or 26dB of noise cancellation and 1 of 3 bandpass filters (100, 500 & 1500 Hz). It provides -45dB out of band reduction with one-click operation. Headphone jack for private listening. Black metal enclosure with adjustable stand and audio cable. Requires 12 VDC @ 110-500mA. Dim: 3" h x 5" w x 2.5" d; 11 oz. .... **\$160.99**

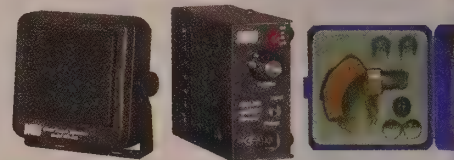
## MFJ Miscellaneous DSP & AUDIO



**784B** Tunable DSP Audio Filter - Improves reception by simultaneously eliminating heterodynes and reducing noise and interference. Has 5 tunable DSP filters, plus 10 programmable filters. An Automatic Notch eliminates heterodynes and Adaptive Noise Reduction automatically handles varying noise levels. Highpass, lowpass and tunable bandpass filters combine to dig out weak and difficult signals. Requires 12 VDC or 110V with the MFJ-1312D. Dim: 9.5" w x 2.5" h x 6" d. .... **\$259.99**



**616** Speech Intelligibility Enhancer™ - Provides approximately 20dB audio frequency boost or cut to four overlapping octave ranges centered at 300, 600, 1200 & 2400 Hz. Improves ability to hear and understand QSOs by adjusting response levels to match your own hearing response. Built-in dual, 2.5W, audio amps; front panel jack; speaker on/off switch; 2 selectable inputs; bypass switch. Dim: 10" w x 2.5" h x 6" d; requires 12 VDC. .... **\$189.99**



**281** Communications Speaker (left) - A rugged 3 inch mylar cone speaker mounted in an effective baffle. Improves speech intelligibility in the 600 to 4000 Hz range while reducing undesirable noise, static and hum. Includes adjustable mounting bracket. Dim: 3.75" h x 3" w x 2.25" d. .... **\$12.99**

**382** Deluxe Amplified Speaker (center) - Excellent for QRP'ers, base station HTs or rigs that can benefit from a higher volume level. A quality 3 inch speaker is housed in an all metal cabinet with rubber feet and vinyl clad cover. Uses a 9V battery or 110V AC with optional MFJ-1312D. Audio cable included. Dim: 3.5" h x 1.75" w x 4.5" d. .... **\$39.99**

**388** CyberEar™ 12dB Amplifier (right) - Tiny and powerful. Plugs in and loops over right or left ear. Captures and amplifies sounds by 12dB to extend your hearing range. Flesh color makes it hardly noticeable. Volume control, on/off switch. Three interchangeable ear plugs. Lightweight, only .35 oz. Includes batteries. Not a hearing aid. .... **\$29.99**

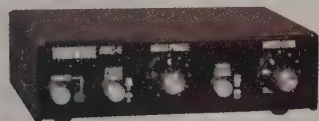


**1263** Microphone Control Center - Eliminates swapping mic connectors. Mix and match any two microphones to any two transceivers. The microphones or transceivers can have 8-pin round or modular connectors. Plug in a PTT foot switch or let a computer or voice keyer control the PTT line. Also, plug in headphones and an external speaker. The headphones are always active and a volume control eliminates the need to readjust the rig's volume when switching the speaker on. An input jack and on/off switch are provided to insert external audio into the microphone audio input line. Great for inputting sound card, SSTV, AFSK, TNC and other audio sources. Includes two 8-pin round radio cables. Dim: 6" w x 1.5" h x 5" d. .... **\$119.99**





**DSP-599ZX** DSP Noise Filter – Digital Signal Processing provides superior reduction of QRM and QRN. Analyzes signal and noise correlation, dynamically filtering out undesired noise. Great for VHF/UHF weak signal and aurora work when it can provide a remarkable improvement in to fluttery or distorted SSB signals. Filter settings are displayed on the LCD; Optical encoders for continuous tuning of filters; Data and bandpass filters with steep skirts and linear phase response for CW and RTTY; Bandwidth Range: 10 Hz-600 Hz; Center frequencies 200-2150 Hz, wider filters allow easy tuning and listening to multiple CW signals; Data filters: RTTY, AMTOR, PacTOR, G-TOR™, HF Packet, SSTV, WeFAX, SITOR and CLOVER. Test instrument mode provides an audio sine wave generator, audio millivoltmeter and two-tone audio generator **\$436.99**

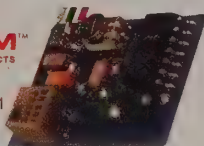


**ANC-4** Antenna Noise Canceller and Diversity Combiner – Effective with any transceiver (up to 250W) or receiver from 500 kHz– 80 MHz. Reduces or eliminates power line, computer and TV noise by cancelling it before it affects the receiver AGC. Connects between your antenna and radio with a second antenna acting as a noise pickup. Controls adjust signal phase and magnitude from the two antennas to effect noise cancellation. It also can operate as an active antenna using a the noise antenna and noise gain control. And, it can be used as a diversity combiner enhance weak signals or null interfering signals. 11–16V DC @ 300 ma. Dim: 1.7" h x 6" w x 4.3" d; 2 lbs ..... **\$209.99**



## TONE SIGNALLING

NC-101



**NC-101** Encoder – Micro-miniature CTCSS encoder, field tunable to any CTCSS tone frequency between 67 Hz and 254 Hz. Uses 5 to 15VDC. Dim: 0.60" w x 0.80" l x 0.15" h..... **\$21.99**

**NC-104** Programmable Encoder – Sub-miniature field programmable CTCSS encoder unit for limited space. Provides standard 37 EIA CTCSS tones plus 69.37, 97.4 and 205.5 Hz. Uses 7 to 24VDC. Dim: 0.625" w x 0.80" l x 0.170" d..... **\$26.99**

**NC-106** Programmable CTCSS Encoder and Decoder – A sub-miniature crystal-controlled digital unit. Field programmable with dip switches providing any one of the CTCSS tones + 97.4 Hz. 6–24VDC. Dim: 0.85" w x 1.35" l x 0.28" h..... **\$67.99**

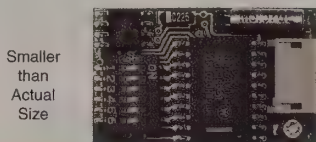
**NC-401** Touch-Tone® Decoder – Now includes remote programming as standard! A micro-mini unit combining 2 distinct multi-addressable decoders for control of remote or local applications. Decodes all 16 DTMF characters with an address length of 1-14 characters and features EPROM memory for storage of both primary and secondary codes, input/output functions, deadbeat disable and user outputs, plus default reset. Programs with a conventional DTMF encoder. 6–24VDC. Dim: 0.80" x 1.37" x 0.23" ..... **\$76.99**

## COMMUNICATIONS SPECIALISTS, INC. TONE ENCODERS & DECODERS



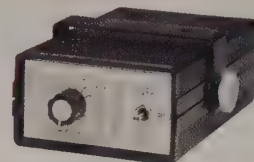
Actual Size

**SS-64** Programmable CTCSS Encoder – Super small for easy installation in most handhelds. Standard with 64 EIA tones between 33 and 254.1 Hz. Individual tones dip-switch selectable. Dim: 1.08" x 0.66" x 0.21"; 6–28 VDC..... **\$28.99**

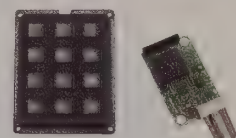


Smaller than Actual Size

**TS-64DS** Field programmable CTCSS Encoder /Decoder – DIP switches select 64 tones 33 to 254.1 Hz. Dim: 2" x 1.25" x 0.3"; 6–28 VDC..... **\$57.99**



**TE-32** Multi-tone Encoder – Provides 32 tones via direct access from the dial rotary switch to all EIA CTCSS tones from 67 to 203.5 Hz, allowing access to multiple repeaters. Great for mobile or test bench. Dim: 5.25" x 3.3" x 1.7"; 6–30 VDC... **\$59.99**



**ID-8** Multi-Featured Automatic Morse ID'er Programmable via 12-button pad; Eight changeable messages (200 characters total); CW speed: 1–99 WPM; ID interval timing: 1–99 min.; ID hold-off timing: 0–99 seconds; CW tone: 100–3000 Hz; 6–20VDC. Dim: 1.85" x 1.12" x 0.35" ..... **\$69.99**

## ICOM D-STAR REPEATERS & CONTROLLER



D-STAR is a new ham radio system which offers digital voice and data communication. It connects repeater sites over microwave links and the Internet and forms a wide area ham radio network. Provides a new capability and functionality to ham radio and emergency communications systems.

**ID-RP2C** - Repeater Controller (control up to 4 modules) ..... **\$1459.99**

**ID-RP2D** - 1.2 GHz Data module; RX & TX 1240–1300 MHz; Output 9–12W (high)/0.5–1.2W (low); Communication speed: 128 kbps..... **\$1112.99**

**ID-RP2V** - 1.2 GHz Voice Module; RX & TX 1240–1300 MHz; Output 6–12W (high)/0.5–1.2W (low); Communication speed: 4.8 kbps .. **\$1559.99**

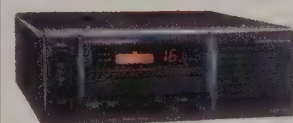
**ID-RP2000V** - 2M Voice Module; RX & TX 144–148 MHz; Output 23–30W (high)/2–3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps) ..... **\$1399.99**

**ID-RP4000V** - 440 MHz Voice Module; 440–450 MHz; Output 23–30W (high)/2–3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps) ..... **\$1399.99**

**ID-RP2L06** - 10 GHz Backbone Module; Microwave link repeater provides linking with another repeater site; RX & TX 10–10.175 GHz; Output 2W; TX speed: 10 Mbps. In order to create a link you must have one ID-RP2L06 at site "A" and one ID-RP2L07 at site "B" ... **\$4999.99**

**ID-RP2L07** Site "B" Link ..... **\$4999.99**

## YAESU



### 2M FM REPEATER

**VXR-7000VA** 50W 2M FM Desktop Repeater 136–150 MHz; 16 channel synthesized; 10–50W output, adjustable (100% duty); 12.5/25 kHz bandwidth; Programmable 16 tones/codes; ANI/ENI I.D. display\*; CW transmitter I.D.\*; Time-out, hang and guard\* timers; BCLO, BTLO; Selectable repeater or base transceiver mode; Selectable local or remote mode; 115/230 VAC, auto. DC back-up. Dim: 4.5" h x 12.8" w x 15.4" d; 22 lbs ..... **\$1269.99**

\* Dealer programmed feature

## WIRES™ INTERNET LINKING

WIRES™ (Wide-Coverage Internet Repeater Enhancement System) is an easy-to-use system for linking repeaters and/or home stations together, using Internet voice technology. You can talk world-wide using your HT or mobile radio via a WIRES-equipped node.



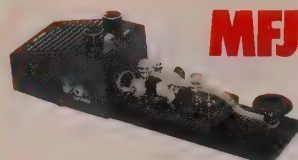
**HRI-100** Amateur Radio Internet Linking Kit Uses DTMF signalling to connect HTs or Mobile transceivers to the Internet. A repeater-based system, ideal for emergency communications, "sister-city" link-ups, or accessing repeaters world-wide. Includes CD, manual, power cable, RS-232C/DB-9 data cable, 8-pin mini-DIN plug data cable, 2 sound card cables and WIRES™ user/server agreement ..... **\$149.99**

## DV Dongle - D-Star on your PC!

Connects via USB port to a PC or Mac. Using DVTool software, a Ham operator can connect to the D-Star Gateway Network and receive and transmit just like operating a D-Star radio. It provides encoding and decoding of compressed audio using the DVSI AMBE2000 full duplex vocoder DSP chip, as used in all D-Star radios. The constantly updated DVTool software which may be downloaded (<http://www.dvdongle.com>), runs on Microsoft Windows XP/Vista, Mac OS X Leopard (10.5+) and many versions of Linux. Includes USB A to mini-B cable and getting started information. System requirements: 2+ GHz CPU, 512MB RAM, USB 2.0 port, microphone, speaker (or headset) and high speed internet. Dim: 3.125" w x 1.625" h x 0.5" d ..... **INT DVDONGLE \$199.99**







## MFJ CODE PRACTICE READERS KEYERS

**557 Code Oscillator with Key** – Practice sending code anywhere. A Morse straight key on a non-skid heavy steel base. The oscillator has a built-in speaker, adjustable volume and tone. Uses 9V battery (not included) or 110VAC with MFJ-1312D (\$15.99). Dim: 8.5" d x 2.25" h x 3.75" w .... **\$39.99**



**554 Code Practice Oscillator** – Designed for classroom use with great sound that enhances learning of Morse code. Plenty of volume from a built-in 1W amp and 3 inch speaker. Volume control and adjustable tone control (400-1000 Hz). On/off switch, power LED, 1/4" key jack, 3.5mm external speaker and DC input jacks. Requires 12V DC. Metal enclosure. Dim: 4.25" x 1.5" h x 5" d **\$99.99**

**550 Hand Key**..... **\$14.99**



**414 Professional Classroom Tutor** – Features include LCD readout, printer port and audio tape recording output. Build and save 3 custom sets for extra practice. Or combine these to obtain 48 characters for using the KOCH method. Customize random words for practice. Use with 144/440 MHz FM HT or HF transceiver for on-air code practice. VECs can give up to 16 exams. Full-featured memory keyer (1000 character memory, semi/auto modes, iambic A/B, reverse paddle, change speed and tone on-the-fly). Practice sending into the 414 with iambic paddle or straight key. Use built-in or external speaker or headphones. Includes serial port and patch cable. Uses 12 VDC or 110 VAC with MFJ-1312D (\$15.99). Dim: 8.5" w x 2.25" h x 6" d..... **\$209.99**



452 with Keyboard

**452 Super CW Keyboard** – A CW keyboard that includes a 2-line 16-character LCD display. Send effortless and accurate CW by just typing and watching the display, no computer required. Speed: 5-100WPM; Weight: 5-95%; Sidetone: 300-3000 Hz sidetone; Serial Numbers (0-9999); Buffer and memory full audible indicators. Keys solid-state and tube-type rigs. Requires 12VDC..... **\$149.99**

**452X** – Same as 452 without keyboard. **\$119.99**

**462B MultiReader™** – Feed in audio from a receiver or transceiver, tune in CW, RTTY, ASCII or AMTOR (FEC) signals and read the auto decoded text directly from the 2-line, LCD display. Copy most standard shifts and speeds in all modes. AutoTrak™ feature for high-speed CW. An 8K memory for storage and convenient printer port. Requires 12VDC. Dim: 6.25" w x 2.5" h x 6.25" d..... **\$199.99**

MFJ CW Keyers &amp; Readers

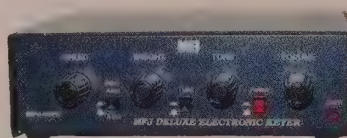
## 461 Pocket-Size Morse Code Reader™

No cables to hook-up and no other equipment needed. Simply hold the unit near your receiver and it instantly displays CW text in English! Automatic speed tracking and instant 140-character replay on a 32-character LCD. If desired, a serial port lets you display CW text on a monitor using a computer and terminal program. Connect directly to a receiver with optional cable when it's too noisy or CW is unwanted. Uses 9V battery (not included). Dim: 2.25" h x 3.25" w x 1" d, 5.5 oz..... **\$89.99**

**5162 Receiver Cable** – Connects the 461 or the 462B to a radio's external 3.5mm jack..... **\$7.99**



**464 CW Reader With Built-In Keyer** – Plugs into a transceiver's speaker/phone jack and key jack. Add a single or iambic paddle or computer keyboard and it's ready for complete CW operation. Send and read at 5 to 99 WPM with automatic speed tracking. Menu operation; two-line LCD shows "send and receive" text; Front panel speed and volume controls; four message memories; 190 character type-ahead and read-again buffers; Adjustable weight (25% to 75%) and sidetone; Built-in speaker; Dim: 6.25" w x 2.5" h x 6.25" d..... **\$189.99**

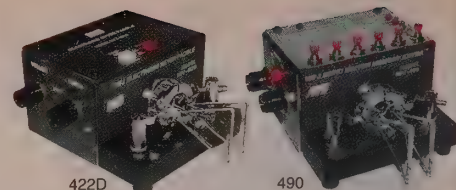


**407D Deluxe Electronic Keyer** – Dot-dash memory, self completing dots and dashes and jam-proof spacing. Single, squeeze, or straight key functions. Front panel speed, weight, tone and volume, ON/OFF, and tune controls; Selectable auto or semi-automatic and A/B-type iambic keying Built-in speaker. uses 9V battery. Dim: 7" w x 2" h x 6" d.... **\$79.99**

**401D Econo Keyer** – Similar to 407D except weight and tone controls are adjusted internally, no tune switch. Dim: 4" w x 1.75" h x 3.75" d ... **\$69.99**



**434B Contest Voice Keyer™** – Call CQ, send your call and do contest exchanges in your own natural voice! Store in EEPROM, frequently used phrases like "CQ Contest this is K9KHW"... "You're 59"... "Grid is EN63" and more! Record and play back five messages (75 seconds total) and repeat continuously with a 3-500 seconds delay. You can record and play back off-the-air signals and there's a jack for remote or computer control. Internal jumpers match Kenwood, Icom, Yaesu, Alinco rigs, using your station or built-in microphone for recording. Built-in speaker and amplifier lets you monitor stored messages. Accepts 8-pin modular or round microphone plugs. The MFJ-73 Remote Control Head (\$34.99) allows out of the way operation. Use 9 Volt battery, 9-15 VDC or 110 VAC with MFJ-1312D, (\$15.99). Dim: 6.5" w x 2.5" h x 6.5" d ..... **\$189.99**

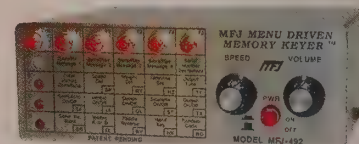


**422D Keyer-Paddle Combo** – Consists of a unique MFJ/Curtis keyer™ in a compact package installed on a Bencher iambic paddle. Adjustable weight and tone and has a front panel volume and speed controls (5-65 wpm). Built-in dot-dash memories speaker, sidetone and semi-auto/tune modes. Key grid block, cathode or solid state. Uses 9 volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 4" w x 2.25" h x 4.25" d ..... **\$189.99**

**422DX Keyer Only** – Install on your Bencher or MFJ 564 Iambic paddle ..... **\$99.99**

**490 Menu Driven Memory Keyer and Bencher Paddle Combination** – A compact feature-rich keyer mounted on a Bencher iambic paddle. No complex sequences. Just press a button to select a menu (LED indicates active menu), then select a feature. Has 192 character (8K) memories divided into four soft sectors. Save messages. Select automatic, semi-automatic or bug or handkey modes. Select iambic A/B, Morse trainer, contest serial numbering. Side tone with built-in speaker and volume control. Adjustable CW speed 5 to 100 wpm. Recognizes special MARS characters. Keys direct or grid-block keying transmitters, solid state or tube rigs. Uses 9-volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 5" w x 3" h x 5.5" d ..... **\$209.99**

**490X Menu/Memory Keyer Only** – Same as MFJ-490 but without Bencher paddle..... **\$119.99**



**492 Menu Driven Memory Keyer** – Same features and as the MFJ-490 but a stand alone unit without paddle. Uses 9-volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 6.5" x 2.5" x 6.25" ... **\$119.99**

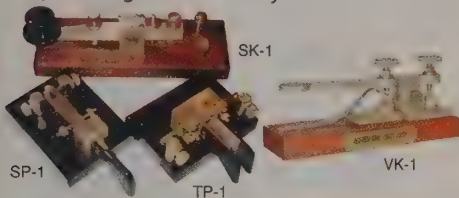


**495 Millennium CW Keyer** – A powerful keyer combining the latest microprocessor technology with non-volatile memory. Easy-to-use menus and LCD display. Send CW, load messages and set functions using a paddle, keyboard or serial port. Iambic mode works with direct or grid-block outputs. PTT output, built-in speaker, sidetone; Iambic keyer with dot and dash memories; 32 message memories; Repeat message continuously; Insert timed pauses, auto-incrementing serial number, or embedded commands to change speed, weight, etc.; Message editing capability; Input queue to store multiple messages; Digital and analog linear speed control; Farnsworth method with speed from 10-99 WPM; Type-ahead keyboard buffer; Dual user/configuration mode. Uses 9-volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 6.25" w x 2.5" h x 6.25" d..... **\$179.99**



## KENT Keys

Produced by R.A. Kent Engineers for OUTbacker. Rugged, machined and polished solid brass components. Delicate, smooth feel and free movement with minimum friction and side play. Silver contacts with precise gap alignments are easily adjusted with knurled heads on fine pitched screws. Non-slip feet, and weighted for stability.



**VK-1** The "Vail Lever Correspondent" Key  
A faithful reproduction, accurate to the type of hardware used during the mid-1800s, of the first full mechanism telegraph hand key made for Samuel F.B. Morse by Alfred Vail in 1844. Hand crafted and serialized – a collectable! ..... **\$179.99**  
**SK-1** – Straight Morse Key ..... **\$129.99**  
**SP-1** – Single Paddle Morse Key ..... **\$139.99**  
**TP-1** – Dual Paddle Morse Key ..... **\$149.99**

**UM** Unified Microsystems



XT-4 VK-64

**XT-4** CW Memory Keyer – Designed for QRP, field day, mobile or any portable operation. Great in the shack with smaller rigs. Speed range 8-45 WPM; (4) 100 character memories; positive keying output; 3.5mm input jack, RCA phono jack output; Paddle reverse for left or right-hand operation; Auto power save mode engages after 30 min. of inactivity. Uses 9V battery ..... **\$69.99**  
**KC-4** – CW Cable set for XT-4 & VK-64. **\$9.99**

**VK-64** Combination CW/Voice Keyer – Store and play back CQs, contest info, etc. in both CW and Voice. The Voice has four memories (up to 15 seconds each). The CW keyer does 10-45 WPM with 4 programmable memories of 300 characters each. Configure for: Iambic A/B keying; Weight; Side tone; Paddle reverse. Tune function; Auto repeat and 1/2 to 12-second delay. Run stand alone or control with PC/laptop through a 25-pin printer port. Works with major contest logging programs. Uses a 12V wall power supply .... **\$229.99**

**VKC-8** Shielded Audio Cable – A semi-kit wired and tested except for microphone and transmitter connectors (8-pin) ..... **\$24.99**



**The Better RF Company**

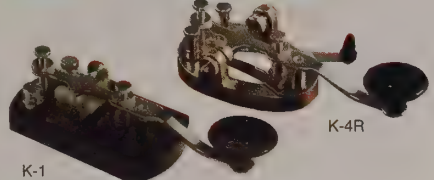
**I-MATE** Accessory for ICOM PRO Series  
Provides external selection of pre-recorded voice and keyed messages for the 756PROII & III and keyed CW messages for the 746PRO. Eliminates shifting the display from operating mode to memory select mode to transmit pre-recorded messages. Four buttons transmit associated messages. Provides pulsed sine-wave oscillator for safe tuner and amplifier tuning. Alternate audio input for second microphone. Plugs into transceiver microphone jack and powers from the available voltage ..... **\$74.99**



**AMECO**  
Code practice oscillator and Morse code monitor

Built-in speaker plus terminal connectors for headphones. Requires a 9V battery and code key.

**OCM-2W** Wired **\$29.99** • **OCM-2K** Kit **\$19.99**



### Morse Code Keys

**K-1** Low-cost General Purpose Key – Phenolic base, adjustable tension, contact spacing **\$10.95**  
**K-4R** Deluxe High Quality Key – Polished brass plated zinc base, shorting bar ..... **\$17.95**

**BENCHER, INC.**

### IAMBIC & SINGLE LEVER PADDLES

Great paddles that are responsive, light to the touch with definitive yet subtle tactile feedback, friction free return, and perfect closure on every dot and dash. Includes gold-plated solid silver contact points and heavy non-skid base.

#### IAMBIC

**BY-1** – Black base/Chrome components **\$114.99**  
**BY-2** – Chrome base/components ..... **\$139.99**  
**BY-4** – Black base/Gold components .. **\$179.99**

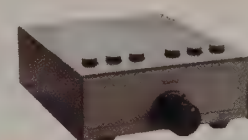
#### SINGLE LEVER

**ST-1** – Black base/Chrome components **\$119.99**  
**ST-2** – Chrome base & components ... **\$139.99**

### RJ SERIES KEYS

Oil-impregnated bronze bearing pivot points for friction-free pivoting and wobble free vertical tracking. Operating comfort with the black Navy knob with removable skirt and stainless steel locking screws that allow individual adjustment for arm height, tension and contact spacing. Heavy metal base with anti-skid rubber feet.

**RJ-1** – Black base/Chrome components .. **\$110.99**  
**RJ-2** – Chrome Base & components .. **\$135.99**



**IDIOM Press LOGIKEY**

**K-5** Fully Iambic Keyer – An improvement on the world-famous LOGIKEY K-3. More user friendly and an unmatched feature list, with the best operator interface available. New features include greater protection against voltage spikes, lightning, etc. All stainless hardware, internal volume control, updated enclosure design. Three AAA cells run the K5 for months, or it also accepts 9 to 12V DC. Works perfectly with single-lever, non-iambic paddles. Dim: 4.25" w x 2.25" h x 4.75" d. The K5 otherwise has too many features to list, but you'll find full details at <http://www.idiompress.com>. ..... **\$149.99**

**HK-3** Hook-up kit for the K3 – Includes Paddle-to-Keyer cordset; RCA-to-RCA keyer output cable and 2.5 mm DC power plug cordset for 12V .... **\$10.99**

## VIBROPLEX®



**CP3** 1/4" Stereo Plug/Cord for CW Keyers .. **\$9.99**

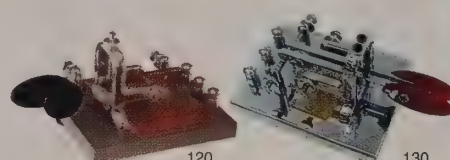
The Original Bug from 1904 for 20-50+ WPM.

**110** Standard – Painted base/chrome top **\$179.99**

**195** Blue Racer 2000 Standard – Blue base with chrome top and red finger pieces ..... **\$199.99**

**105** Deluxe – Polished chrome base and top parts with fine jewel movements ..... **\$209.99**

**100** Presentation – Polished chrome base and 24K gold-plated base plate and chrome top parts, fine jewel movements ..... **\$269.99**



**Vibrokeyer** (left) – Single lever paddle initiates automatic dots and dashes of an electronic keyer.

**120** Standard – Black base, chrome parts . **\$159.99**

**115** Deluxe – Chrome base and top parts with jeweled movements ..... **\$199.99**

**113** Gold – 24K gold-plated base and chrome top parts with jeweled movements ..... **\$279.99**

**Iambic** (right) – Allows automatic dot/dash insertion.

**135** Standard ..... **\$159.99**

**130** Deluxe ..... **\$199.99**

**125** Presentation – 24K gold-plated top plate, chrome base with jeweled movements ..... **\$269.99**

**123** Gold ..... **\$279.99**



**145** Triangle Brass Racer Iambic – Solid brass paddle & polished hardwood base ..... **\$149.99**

**150** Square Brass Racer – Solid lacquered brass Iambic paddle mounted on a polished hardwood base. Magnetic action, no springs ..... **\$149.99**

**190** Square Racer Standard – Black base with chrome top parts, cord included ..... **\$129.99**

**185** Square Racer Deluxe – Chrome base with chrome top parts, cord included ..... **C/O \$129.99**

**200** Code Warrior Jr – Magnetic Paddle. **\$109.99**



**Straight Keys** (left) – Unique mechanical action, unlike any straight key ever manufactured.

**155** Standard ..... **\$159.99**

**160** Deluxe ..... **\$199.99**

**Deluxe Double Keys** (right) – Choice of iambic and straight or vibrokeyer and straight key. Double keys allow you to instantly switch from using an electronic keyer to the personal touch of a straight key.

**165** DLX straight key/Iambic ..... **\$349.99**

**170** DLX straight key/Vibrokeyer C/O **\$299.99**



Price Guide  
Used / Demo

Ham Radios

Ham Radios  
Accessories

Antennas  
Accessories

Antenna  
Accessories

Publications

Other  
Radios

Weather

Audio / Video  
& Tools

AES  
Information

## West Mountain Radio



### RIGblaster

The easiest way to connect a radio to a PC to operate old or new analog and digital modes. Over 100 ham radio programs transmit and receive over 20 different modes. Your radio, a RIGblaster, PC, and appropriate software take the place of old expensive adapters, TNC's, digital voice keyers, microphone equalizers, rig control interfaces, DSP receive filters, internet linking interfaces, automatic beacon clocks and more. Use the processing power built in to your PC instead of a old fashioned outboard box that only does a few things. All RIGblasters are fully ground isolated, come with an up to date CD collection of ham radio operating software, all the cables and power supply you need to get on the air. Five models to choose from for your operating needs. Use with any USB or RS-232 computer and over 2000 different radios.

**RB/PR/CUSB** RIGblaster Pro USB – The only complete computer interface! Allows you to use all sound card software, computer control a radio, equalize and record a microphone, operate keyboard FSK, CW and more. Built in rig control interface for most radios. Single serial port rig control and sound card operation. Separate CW and FSK keying outputs. Transmit audio muting. Two mic. switchover. For the ham that wishes to do everything that can be done with a computer and a radio. For 8-pin and RJ-45 radios as supplied .... **\$299.99**

**RB/PL/CUSB** RIGblaster Plus USB – Run all sound card modes with fully automatic operation with your mic. No manual switching, no plugging or unplugging. Works with all transmit and receive sound card software. CW or FSK direct keying output. 8-pin and RJ-45 radios as supplied... **\$159.99**

**RB/NO/CUSB** RIGblaster Nomic USB – Small and inexpensive. Perfect for portable or temporary setups. No power supply needed. Perfect for an Internet remote link. Unplug your microphone whenever you wish to use sound card software. For 8-pin and RJ-45 radios as supplied..... **\$59.99**



**RB/PP** RIGblaster Plug & Play – Compatible with over 25 modes and all ham radio sound card programs. Connects through radio's DATA jack and computer's USB port and sound input. A built-in USB to serial converter provides T/R switching, CW keying and CAT/CI-V rig control. Complete with USB cable, computer audio cable & a CD ROM. The plug & play has fully isolated audio and keying, runs from USB power. A special feature for Echolink provides carrier detect on CTS, DSR and DCD. Some radios will require an additional Data Jack Adapter cable; does not work with FT-847 or FT-1000D..... **\$119.99**

**CIV/CBL** Rig Control Cable for CI-V Radios... **\$9.99**

**CATMINI/CBL** Rig Ctrl Cable for CAT Radios **\$13.99**

Auxiliary Jack Adapters:

**RPA/I13D** 13-pin DIN, for Icom..... **\$9.99**

**RPA/I8D** 8-pin DIN, for Icom..... **\$9.99**

**RPA/K13D** 13-pin DIN, for Kenwood..... **\$9.99**

For Rig Compatibility information see the chart at:  
[www.aesham.com/rig.shtml](http://www.aesham.com/rig.shtml)

## MFJ Computer SOUND CARD to RIG Interfaces

Connect the Sound Card in your Computer to your Rig and operate the Digital Modes: CW, RTTY, SSTV, PSK-31, packet, APRS, AMTOR, High Speed Meteor Scatter and more!

**Sound Card Interface** – Connect between a transceiver and computer to operate PSK-31, packet, APRS, AMTOR, RTTY, SSTV, CW, HSCW, plus contest voice keying, contest memory keyer, etc. Internal jumpers set up for any radio. Includes AC power supply, all cables and a collection of popular Digital mode software on CD.

**1275** Accepts 8-pin round microphone plug..... **\$109.99**

**1275M** Accepts 8-pin modular plug (RJ-45)..... **\$109.99**



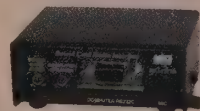
MFJ-1279 (front & back)

**Super Sound Card Interface** – Has all of the features of the MFJ-1275 above, plus: an Auxiliary input jack to switch the sound card to some other device. No more plugging and unplugging. Direct CW/FSK keying jack, headphone jack (use stereo headphones), also turns off external speaker. Plug in a footswitch or other for PTT switch when not using VOX. Plug and play, includes CD with a selection of Digital mode software, RS-232 and audio cables, and AC power supply.

**1279** For 8-pin round mic. plug ... **\$139.99** • **1279M** For 8-pin modular (RJ-45) mic plug ... **\$139.99**

**Basic Sound Card Interface** – A basic plug-and-play interface for the digital modes. Has jacks for sound card, radio, speaker and RS-232 (no mic jack or mic switch). Includes RS-232, audio and mic cables and Digital mode software CD. No external power needed.

**1273B** For 8-pin mic plug ... **\$59.99** • **1273BM** For 8-pin modular ... **\$59.99**



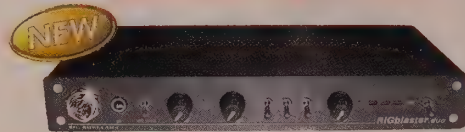
### MFJ 16-Element Wi-Fi Yagi



**1800** – Covers 2.4 GHz with 15dBi gain which greatly extends the range of 802.11b/g Wi-Fi signals up to 32 times over an isotropic radiator. Turns an unusable or slow Wi-Fi signal into a solid, fast connection. The highly directional pattern minimizes interfering signals. Works with any 802.11b/g or 2.4 GHz device. Unique mount has a built-in standard N-type female connector and can mount on a photographic tripod. There are rear holes for wall mounting and bottom holes for desk or shelf mount. Orientates for either horizontal or vertical polarization. Precision punched aluminum construction. Boom length: 18 in. weight 2.9 oz. .... **\$29.99**

**5606SR** – 6 ft. cable with N type male connector on one end and reverse SMA connector on the other. Connect your MFJ-1800 to any 802.11b/g device with a reverse SMA connector..... **\$24.99**

### RIGblaster duo



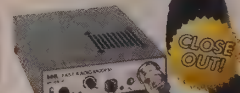
**RB/DU/CUSB** Station Integration Console

Now make your station neater, better and more efficient. The duo has the same capabilities as other RIGblasters, but additionally, you can operate two radios using one microphone, one set of headphones, one pair of speakers and just one sound-card interface in your USB equipped PC with an available USB socket. The duo's built-in dual USB to serial converter allows you to use two ham radio software applications at the same time. It can be used with almost any microphone and works with a single pair of amplified or unamplified speakers. You can monitor any combination of radio (A, B) and computer on headphones and/or speakers. Each radio can be internally configured for your choice of stereo dual receive, dual mono or left or right. Dual isolated CW keying and dual FSK outputs key both radio via computer software that can operate with either virtual COM port. Dual CI-V or single TTL level CAT control to control radios via either virtual COM port. Comes with two 8-pin round mic. cables, one RJ-45 mic. cable, DC cord, jumper pack, USB cable, four mini-audio cables and adapters. Requires 13.8 VDC @ 1.8 amps... **\$349.99**  
[www.westmountainradio.com](http://www.westmountainradio.com)

### AOR Digital Voice Interfaces



ARD-9000 MK 2



ARD-9800

**ARD-9000 MK 2** Digital SSB Interface

Like the previous ARD-9800, it works with any existing SSB transceiver without modifications to operate digitally where background noise and static are virtually non-existent and SSB audio is near FM quality. It's Digital Voice only and does not include Data and Images like the ARD-9800. The ARD-9000 MK 2 and ARD-9800 are compatible with each other and both automatically detect digital signals and decode them while allowing analog signals to pass through. Easily shifts between digital and analog operation. Comes with a speaker-microphone, DC power cable, magnetic mount base and 8-pin microphone plug. It's ready to make the simple connection to your transceiver's mic input and speaker output. Dim: 2.8" w x 1.3" h x 3.9" d..... **\$359.99**

**ARD-9800** Digital Voice and Image Interface

Use your SSB transceiver for Digital Voice, Data (3600 bps) and Images while maintaining analog capabilities. Easy install! Includes PTT hand mic, cables & manual. Requires 10-16VDC. Dim: 3.94" w x 1.26" h x 6.14" d **Closeout \$499.99**



# Kantronics

## MULTI-MODE DATA CONTROLLERS

**TIMEWAVE**  
TECHNOLOGY INC.



**KPC-3 Plus/128** - 1200 bps port; Packet, GPS/APRS, Host, KISS and WEFAX modes, use with EMWIN; Personal Mailbox (PBS) now supports multiple calls; Remote access, sensing and control with two A/D and two control lines; PBS 100k, expandable with optional 512k RAM..... **\$229.99**

**9612 Plus/128** - 1200 bps port and second port of 4800 - 38400 bps; Most modes/capabilities of the KPC-3 Plus and POCSAG (paging); Unique design allows the addition of another port, high or low speed; Remote access, sensing and control capability; Telemetry transmission capability..... **\$430.99**



**KAM XL Multi-Mode DSP Controller** - Third generation multimode TNC, state-of-the-art for operations on HF/VHF/UHF, while supporting DSP modems and popular new modes: Packet 300/1200 bps; G-TOR; PACTOR I; AMTOR ARQ (FEC, SELFEC, CCIR 476 and 625); PSK31; RTTY; AVTEX/AMTEX; ASCII; WEFAX; CW; Dual-port mailbox; Remote SYSOP access; GPS NMEA-0183 compatible; Kantronics Host Mode and KISS..... **\$446.99**

## WIRELESS MODEM



**MT-1200 Mobile Tracker** - A simple and affordable wireless modem able to communicate in a variety of formats including TCP/IP, LSUB, TUPs, AX.25, KISS, XKISS, POLL, LSUB, TUP and PING operating modes. Radio link substitute. May be used with an external NMEA GPS receiver. 512K memory. Dim: 0.95" h x 4.9" w x 3.0" d; 4.8 oz **C/O \$179.99**

**12VDCAPTOR 120VAC Adapter** - Supplies 12VDC @ 300 mA for Kantronics units..... **\$19.99**

**PK-232/PSK Multimode Data Controller** - The most popular data controller ever built, now with a sound card interface. Offering a new level of performance with accurate DSP filters for internal data modes and dual transformer isolation for sound card modes. 18 DSP filters, twin peak RTTY filters, 100 Hz CW filter and adaptive PACTOR filters. Weak signals pop through noise and interference bounces off the filters for cleaner copy than old analog filters. Supports new sound card modes in addition to existing PK-232 modes. Comes with a complete cable and connector set, in addition to Timewave's on-line and telephone support. Requires 11-16V DC @ 800 ma. Dim: 8.25" d x 2.5" h; 3 lbs..... **\$531.99**

**PK-232/USB** - Same as above except the RS-232 port is replaced by a USB port..... **\$549.99**



## PACKET TNC

**PK-96/100K 9600/1200 packet TNC** - 9600 and 1200 bps packet-ready; GPS firmware standard; Remotely program; GPS commands; Stand-alone tracking hardware HDLC for accuracy; True DCD hears weak signals; Gateway as a Node; Full MailDrop; AEA host mode; Advanced command set; Identify TCP/IP, TheNet and NetRom; Separate external TX for 9600/1200 bps adjustments; External reset; PC PackRatt Lite™ terminal control and APRS™ software included; WIN and MAC programs available; 128K RAM. Requires 12V DC. Dim: 6.25" w x 7.5" d x 1.375" h; 1.25 lbs.. **\$219.99**

**AC-1 120VAC Adapter** - Supplies 12VDC @ 600 mA for PK-232/PSK/USB data controllers.. **\$15.99**

**AC-5 120V Desktop Power Supply** - Supplies 13.8VDC @ 1.7 Amps for the DSP-599ZX, PK-232/DSP, DSP-2232, DSP-1232, DSP-232, PK-900, PK-232/PSK/USB, PK-96/100K..... **\$22.99**

**W4RT**  
Electronics

**YAESU**  
ACCESSORIES

## One-Plug Filters

Direct plug-in W4RT-built Collins mechanical filters for the Yaesu FT-817(ND), 857(D) and 897(D) radios. The CW filters also work in the FT-2000(D). Improve your CW/PSK experience with a 300 Hz (8-pole) or 500 Hz (7-pole) filter which are essentially identical to the Yaesu YF-122C and YF-122CN. The 300-Hz is often preferred by CW & PSK testers. The 2.3 kHz SSB filter contains a 10-pole Collins Mechanical Filter identical to the Yaesu YF-122S. "Hearing" is improved and tests have demonstrated that a 2dB improvement in talk power can be realized by using this filter rather than the stock MuRata ceramic filter. All filters are properly terminated and easy to install. Just remove the cover, plug-in, and set the radio's menu as explained in the respective manuals.

**OPF-YCW300** 300 Hz CW filter..... **\$114.99**

**OPF-CW** 500 Hz CW filter..... **\$109.99**

**OPF-SSB** 2.3 kHz SSB filter..... **\$129.99**

## Speech Compressor

**OBP-STD**

### One BIG Punch

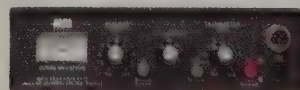
Installs inside the MH-31 microphone used with the Yaesu FT-817, 847, 857 & 897 series transceivers. An AF-based compressor configured to provide a 5dB increase in talk power with good audio quality. Requires no additional power, and turns On/Off with the MH-31's Tone switch..... **\$49.99**

**OBP-UNIV** - The One BIG Punch for microphones having 7-12V DC available, like the Yaesu MH-36 used with the FT-100/D or the Icom HM-103 with the IC-706 radios..... **\$49.99**

## MFJ DX BEACON MONITOR

**890** - Checks worldwide band conditions in just three minutes. Its stand alone timing device using a microprocessor and built-in WWVB atomic clock to keep track of the worldwide DX beacon activation sequence. LED indicators positioned across a world map show which of the 18 world beacons is active at any given time. Storing the beacon frequencies (14.100, 18.110, 21.150, 24.930 and 28.200 MHz) in your receiver memory allows quick band switching as one listens for beacon transmissions. When a beacon is heard (on your station receiver) on any of the beacon frequencies, that band is open to the location as indicated by the corresponding LED. No receiver connection required. 12VDC or 110VAC with the MFJ-1312D. Dim: 6.7" w x 5.2" h x 3" d..... **\$119.99**

## PHONE PATCH



**624E Deluxe Hybrid Phone Patch** - Use with any rig with 8-pin or modular mic connector. Operate VOX or PTT. Built-in VU meter monitors phone line levels. Null depth control adjusts for maximum receiver and transmitter isolation. Separate TX and RX gain controls. RJ-11 jacks for speaker, audio in and audio out. Use 12 VDC, 9V battery or 110 VAC with MFJ-1312D. Dim: 8" w x 2" h x 6" d.. **\$149.99**

Data Controllers • APRS

Yaesu Accessories • MFJ Accessories

67

Offering  
Navigation, plus APRS  
Ready for these  
**KENWOOD Transceivers**



## AvMap GPS Navigator

**G5** - The ultra bright non-glare 5 inch LCD TOUCHSCREEN is easy to view in any lighting condition. Comes preloaded with highly detailed Tele Atlas street maps of North America on a 2 GB SD memory card and gives you color 2D and 3D views with turn by turn voice prompts in 14 different languages. Includes a Kenwood-ready cable and exclusive APRS interface built right into the G5. This bi-directional RS-232 APRS interface is balanced for ALL current APRS ready Kenwood Radios. Other features include: detachable 12v power cable, bi-directional NMEA 183 serial port, external antenna port, NTSC/PAL video and audio input, PC connection for software updates via USB port, off road, fastest route, and least turns calculations with turn details. Routing instructions include current road name and house number with road name and the next turn command. "Drive Me Home" rapid command. Intuitive touch screen address lookup with millions of points-of-interest. Includes all-in-one navigation and mobile navigation software, built-in speaker, lithium-ion rechargeable battery and car charger, SD memory card, and cables. Dim: 5.5" w x 3.9" h x 1.4" d, 0.86 lb..... **\$649.99** • See the full G5 brochure at: [www.avmap.it](http://www.avmap.it)

• 1-800-321-3594 OH • 1-800-327-1917 FL • 1-800-634-6227 NV

Email Your Questions to [info@aesham.com](mailto:info@aesham.com)

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Price Guide  
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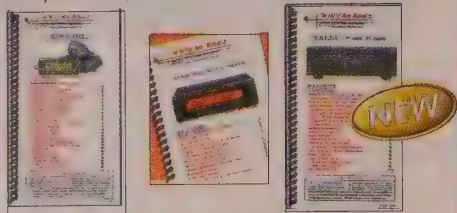
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# Nifty! Ham Accessories

Quick Reference Operating & Programming Guides for Icom, Kenwood and Yaesu Radios



**Mini-Manuals** - Great for keeping with you wherever you go; its there when you need it. Fully laminated, water resistant spiral bound booklets, 4-1/4 x 8 inches, providing simplified step-by-step set-up instructions for all your radio's features. Better and more informational than simple key function data charts. Easy to read and color-coded to quickly find the information you need.



**Tri-Folded Reference Cards** - Professional quality three-page foldout cheat sheets the size of a credit card for easy carrying in a wallet or purse.

**Mobile Quick Reference Cards** - The size of commonly used highway maps, 4 x 8 inches, for convenient storage in a car-door map-pocket or in the glove box.

## Guides for ICOM Models:

<b>QR-IC208H</b> - Quick Reference Card.....	<b>\$5.99</b>
<b>QR-IC2200H</b> - Quick Reference Card.....	<b>5.99</b>
<b>QR-ICV8000</b> - Quick Reference Card.....	<b>5.99</b>
<b>QR-ICT90A</b> - Tri-folded Reference Card.....	<b>5.99</b>
<b>QR-ICV8</b> - Tri-folded Reference Card.....	<b>5.99</b>
<b>MM-IC2820H</b> - 20 page Mini-Manual.....	<b>20.99</b>
<b>MM-IC706MKIIG</b> - 12 page Mini-Manual ..	<b>16.99</b>
<b>MM-IC746PRO</b> - 20 page Mini-Manual.....	<b>20.99</b>
<b>MM-IC756PRO3</b> - 20 page Mini-Manual ..	<b>20.99</b>
<b>MM-IC7000</b> - 20 page Mini-Manual.....	<b>20.99</b>
<b>MM-IC91AD</b> - 20 page Mini-Manual and Tri-folded Quick Reference Card Combo .....	<b>20.99</b>
<b>MM-IC92AD</b> - 24 page Mini-Manual and Tri-folded Quick Reference Card Combo .....	<b>22.99</b>

## Guides for KENWOOD Models:

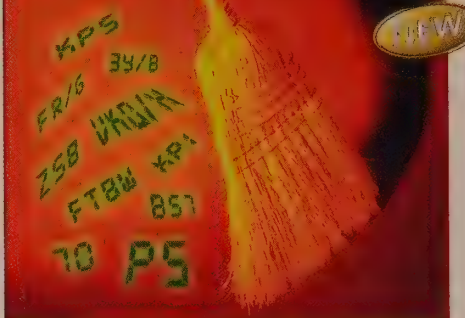
<b>QR-THF6A</b> - Set of 2 Tri-folded Ref. Cards ....	<b>\$7.99</b>
<b>QR-TM271A</b> - Quick Reference Card.....	<b>5.99</b>
<b>MM-TMD710A</b> - 24 page Mini-Manual.....	<b>22.99</b>
<b>MM-TMV71A</b> - 16 page Mini-Manual.....	<b>18.99</b>
<b>MM-TS2000/X</b> - 16 page Mini-Manual.....	<b>18.99</b>

## Guides for YAESU Models:

<b>QR-VX3R</b> - Set of 2 Tri-folded Ref. Cards .....	<b>\$7.99</b>
<b>QR-VX6R</b> - Tri-folded Reference Card.....	<b>5.99</b>
<b>QR-VX7R</b> - Tri-folded Reference Card.....	<b>5.99</b>
<b>QR-VX170/177</b> - Tri-folded Reference Card.....	<b>5.99</b>
<b>QR-FT60R</b> - Tri-folded Reference Card.....	<b>5.99</b>
<b>QR-FT1802M</b> - Quick Reference Card.....	<b>5.99</b>
<b>QR-FT2800M</b> - Quick Reference Card.....	<b>5.99</b>
<b>MM-FT2000/D</b> - 20 page Mini-Manual.....	<b>20.99</b>
<b>MM-FT857D</b> - 12 page Mini-Manual.....	<b>16.99</b>
<b>MM-FT897D</b> - 12 page Mini-Manual.....	<b>16.99</b>
<b>MM-FT950</b> - 20 page Mini-Manual .....	<b>20.99</b>
<b>MM-FT450/AT</b> - 12 page Mini-Manual .....	<b>20.99</b>
<b>MM-FT7800R</b> - 12 page Mini-Manual.....	<b>16.99</b>
<b>MM-FT8800R</b> - 12 page Mini-Manual.....	<b>16.99</b>
<b>MM-FT8900R</b> - 12 page Mini-Manual.....	<b>16.99</b>

The Radio Operations Center  
Makes It Easier to

# Sweep the Bands



Radio Operations Center software is a decided advantage for DXers.

With the Radio Operations Center™ (formerly called PacTerm™ and PKTerm™), it's easier to make more digital QSOs faster. Some of our DX users report complete sweeps of all the bands in digital mode in less than a day's cumulative time.

The Radio Operations Center's Digital Desktop™ gives you the power to command multimode and multistream Kantronics or Timewave/AEA TNCs, or to work in soundcard mode - at the same time. It's the only radio control software that combines the latest integration, automation and multi-tasking features of Windows XP and Vista with the control and flexibility to operate your radio more effectively in all the digital modes.

You can integrate call books. React faster with macros. Automatically log QSOs, and so much more. With the right skill, equipment and ROC Digital Desktop, you can really sweep up the Ham bands in DX. All for only \$99.99. Get your **free, 30-day trial** today at [www.cssincorp.com](http://www.cssincorp.com).

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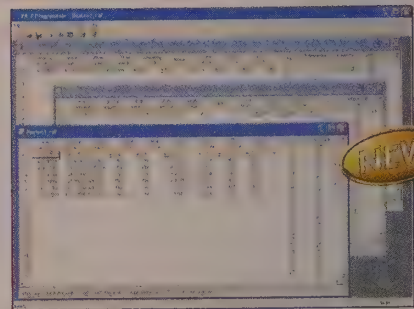
See CSS in the Price Guide

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Price, policies and specifications subject to change without notice.



# RT Systems

Radio  
Programming  
Software

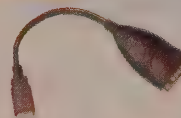


The New Version 3 Programmers make programming your radio Quick and Easy with lots of new Data Management features.

- Insert or delete channel information without re-entering the entire list.
- "Direct-Link" to ARRL TravelPlus™
- Open several files at once to copy between them; even files for different radios
- Multi-row copy/paste (all data or single column)
- Printing • Find and Go-to
- Sort on any field then un-sort to original order

Available for the following ICOM Radios and kits include software and DB-9 serial cable.

<b>WCS-T90</b> - For T-90A.....	<b>\$49.99</b>
<b>WCS-91</b> - For T-91A/AD w/D-Star settings	<b>\$49.99</b>
<b>WCS-208</b> - For IC-208H.....	<b>\$49.99</b>
<b>WCS-2200</b> - IC-2200H w/D-Star settings.	<b>\$49.99</b>
<b>WCS-2820</b> - IC-2820H w/D-Star settings.	<b>\$49.99</b>
<b>WCS-7000</b> - For IC-7000.....	<b>\$49.99</b>
<b>WCS-V8000</b> - For IC-V8000.....	<b>\$49.99</b>



**RTS-03**  
USB to Serial  
Adapter Cable  
**\$22.99**

## PORTABLE PACKS



### Communications Outfitters

**EXP-1** Expedition Pack for FT-817 (A) - Allows backpack style or table top operation with access to all controls, front and rear. Zippered pouches securely hold most any antenna in the collapsed position. Divided radio compartment holds the FT-817 on top, and the lower compartment can hold an amplifier, tuner, accessories, or another radio. Made of high quality, durable nylon with plastic panels for rigidity and it's water-resistant. Dim: 12"w x 4"h x 15"d..... **\$99.99**

### MEJ

**18** HamGear™ Tactical Chest Harness (B) - For portable hamfest use, DXpeditions, field day, biking, hiking, etc. Made of durable heavy duty twill burlap. Water resistant and will cushion blows. Adjustable shoulder straps. The harness is held in place by stretchable elastic belt with snap hook and adjustable sliders supported by nylon straps. An additional 5 x 7 inch cargo pocket holds another radio, accessories, maps, etc..... **\$29.99**

**15** HamGear™ Belt Radio Holder (C) - A durable twill burlap pocket with elastic cord and velcro closure that easily stretches over any HT. Secures with attached 2 x 3 inch loop.. **\$14.99**



## THE PERFECT ANTENNA

For almost 2 decades GAP has stated there is no perfect antenna. No singular antenna can do it all. That is why we designed a family of antennas that utilize the patented (#5,592,183), GAP Technology, to give you options. Within this family is the antenna right for you. If deed restrictions or visibility are a problem, take a look at the Eagle DX. If you are looking for a simple general coverage antenna with capture area, consider the Challenger DX. What about a low band antenna with great 40m and 80m performance? The Voyager DX is worth your attention. If you seek the most popular multiband antenna, then the Titan DX will end your search.

The GAP Technology eliminates traps, electromechanical devices and coils, which can increase loss and decrease reliability. Simplicity in design results in a very user friendly assembly process. Slide one tube over another until the big hole lines up with the little and insert a screw. A GAP is pretuned, will handle 1500W PEP, and has a VSWR < 2:1 across the entire band.\*

### CATCH THE WAVE

#### TITAN DX

10m, 12m, 15m, 17m,  
20m, 30m, 40m, & 80m

25' tall 25 lbs

Mounts on 1-1/4" OD  
mast

No radials required.

\*VSWR under 2:1 on  
80m 100 KHz

#### CHALLENGER DX

2m, 6m, 10m, 12m,  
15m, 20m, 40m, & 80m

31.5' tall 21 lbs

Drop in ground mount  
supplied.

3 counterpoises  
required 25' long.

\*VSWR under 2:1 on  
80m 130 KHz

#### VOYAGER DX

20m, 40m, 80m, &  
160m

45' tall 39 lbs

Supplied with hinged  
ground mount.

3 counterpoises  
required 57' long.

\*VSWR under 2:1 on  
160m 90 KHz

#### EAGLE DX

10m, 12m, 15m, 17m,  
20m & 40m

21' tall 19 lbs

Mounts on 1-1/4" OD  
mast

No radials required.

\*40m limited to  
400 watts

### QUICK TILT

The easy way to raise and lower your  
antenna, support mast or flagpole.  
Works with most antennas.

GROUND MOUNT



Accommodates  
1-1/4" 2" OD Mast

LADDER MOUNT



ANTENNA ACCESSORIES  
FOR ALL



STAINLESS STEEL & ALUMINUM CONSTRUCTION

### GUY KITS

Insure your antenna or support mast  
against the elements with a Guy Kit.



STAINLESS STEEL & ALUMINUM CLAMP  
3/32" UV Protected Black Double Braided Polyester Rope

## NOISE CANCELLATION EQUIPMENT

PROVIDES 9-35dB DSP RECEIVE NOISE CANCELLATION

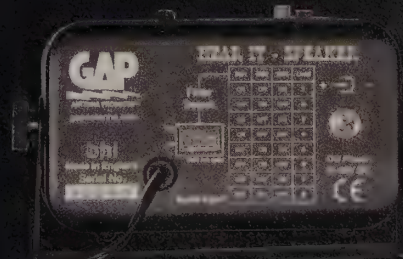
### HEAR IT SPEAKER

Base or Mobile – the HEAR IT will  
dramatically improve your audio.

- 8 user selectable levels of DSP noise cancellation
- 12-24 VDC power requirement
- 2.5W maximum audio output
- Input sensitivity control
- Headphone jack
- On/Off audio bypass switch
- 6 ft. audio lead with 3.5mm plug
- Dim: 4.5"w x 2.75"h x 2.25"d



FRONT VIEW



REAR VIEW

**For Prices see GAP  
on Page 9 in the  
PRICE GUIDE**

### HEAR IT IN-LINE MODULE

Put a HEAR IT in-line Module between  
your rig and speaker and KILL noise.

- 8 User Selectable levels of DSP noise cancellation
- Audio & Line level inputs and outputs
- 12-24 VDC • 2.5W maximum audio output
- On/Off audio bypass switch
- Headphone jack
- Dim: 6.75"w x 3.35"h x 1.4"d





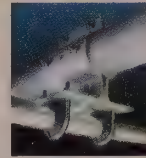
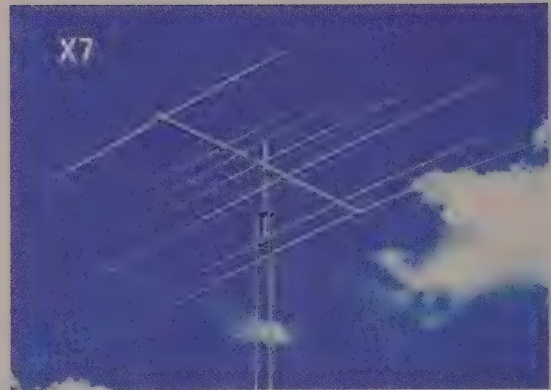
## X7 BIG THUNDER TRIBANDER YAGI

The X7 Triband Yagi is geared to set new standards in both radiating performance and mechanical reliability. The product development team has employed the latest computer modeling technology to achieve a superior electrical design as well as elegant new mechanical hardware and assembly techniques.

Each mechanical component was designed to 100+ MPH wind survival with a 1.25 safety factor. Traps were eliminated from the high current driven elements and reflectors using the new 4L Log Cell design, which yields virtual monoband performance and maximum power handling capability. Traps are employed only in the lower current directors for increased gain and sharper pattern. The result is a truly high performance antenna which will easily handle the legal limit.

- New High Efficiency Computer Optimized Design for Maximum Gain and Ultra Clean Radiating Pattern
- 100+ MPH Construction for Best Reliability and Long Life
- NEW 4L Log Cell Driven Elements for better VSWR Bandwidth
- Trapless Driven Elements and Reflectors for Reliable Power Handling

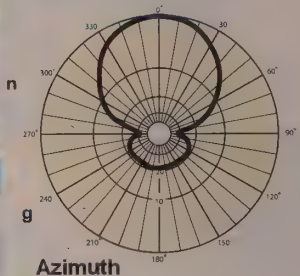
Specifications:	X7	ASL2010
Frequency Coverage	10, 15, 20 (Meters)	13.5-32 MHz
Number of Elements	7	8
Gain, dBi	12.5 (20m) @14° 13.0 (15m) @12° 12.9 (10m) @12°	6.4
Front to Back Ratio, dB	20	15-20
SWR 2:1 Bandwidth	600 KHz (20m) 750 KHz (15m) 1700 KHz (10m)	18.5 MHz
Longest Element, in (cm)	37.2' (11.33)	38 (11.58)
Turning Radius, ft (m)	20.0' (6.09)	19.25' (5.86)
Boom Length, ft (m)	18' (5.48)	18' (5.48)
Wind Load ft <sup>2</sup> (m <sup>2</sup> )	7.9 (.73)	10.1 (.93)
Max. Power Watts PEP	1500W	1500W
Weight, lb (kg)	60 (27.2)	55 (25.5)



### 40 Meter Add On Kit

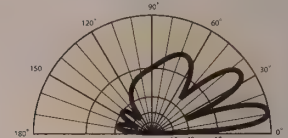
Specifications:	X740
Band	7 MHz
Element Length	41 (12.5)
Power (PEP)	1500W

X7



Azimuth

Typical radiation patterns.  
Height: One wavelength.  
Frequency: 20 M



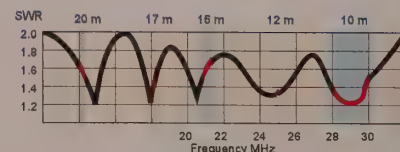
Elevation

## LOG PERIODIC

### Skylog ASL2010, 13.5 - 32 MHz

The ASL2010 log periodic antenna is the most cost effective, high gain, five band antenna solution on the market today. Skylog offers continuous operation from 13.5 to 32 MHz. Antenna gain and beamwidth are constant for uniform coverage from 10 through 20 meters. The ASL2010 is rated for continuous duty at full legal power. Skylog is designed for maximum gain on a manageable 18 foot boom with only 10.1 square feet of wind surface area. All stainless steel hardware and rugged element design are only some of the many features that provide years of superior antenna performance. Skylog ASL2010 is the smart choice for multiband HF operation.

- Continuous five band coverage from 13.5 to 32 MHz
- Constant over entire frequency range
- 6.4 dBi gain, 65 degree beamwidth
- 18 foot boom and 19.25 foot turning radius
- High efficiency design, antenna stays cool and VSWR steady



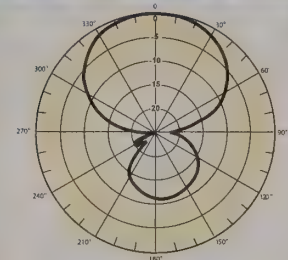


## The MA5B, Compact HF Multi-Band Beam

### Small Footprint–Big Signal

MA5B. Laird Technologies' multiband HF antenna provides 5 band operation in a package small enough to mount to a tripod. The MA5B is a design that does not sacrifice ruggedness, performance and power handling for size and ease of installation.

Specifications:	MA5B				
Frequency Bands	10	12	15	17	20
Elements per Band	2	1	2	1	2
Gain, dBi	5.3	2	4.8	2	3.6
Front to Back Ratio, dB	10	0	12	0	22
Side Lobe Atten. dB	25	20	25	20	25
VSWR 2:1 Bandwidth, KHz	655	>110	225	>100	90
Longest Element, in (cm)	17.1' (52m)	17.1' (52m)	17.1' (52m)	17.1' (52m)	17.1' (52m)
Turning Radius, ft (m)	8.8' (2.7m)	8.8' (2.7m)	8.8' (2.7m)	8.8' (2.7m)	8.8' (2.7m)
Boom Length, ft (m)	7.3' (2.2)	7.3' (2.2)	7.3' (2.2)	7.3' (2.2)	7.3' (2.2)
Boom Diameter, ft (m)	1.5" (3.8cm)	1.5" (3.8cm)	1.5" (3.8cm)	1.5" (3.8cm)	1.5" (3.8cm)
Max. Wind Surface Area	3.22ft <sup>2</sup> (3m <sup>2</sup> )	3.22ft <sup>2</sup> (3m <sup>2</sup> )	3.22ft <sup>2</sup> (3m <sup>2</sup> )	3.22ft <sup>2</sup> (3m <sup>2</sup> )	3.22ft <sup>2</sup> (3m <sup>2</sup> )
Max. Power Watts PEP (FM)	1200W (400W)	1200W (400W)	1200W (400W)	1200W (400W)	1200W (400W)
Weight, lb (kg)	26.5 (12)	26.5 (12)	26.5 (12)	26.5 (12)	26.5 (12)



**High Front To Back Ratio  
On 10/15/20m**

## Low Frequency Vertical Antennas 160 and 80/40 Meters

### MA8040V 3.5-7.3 MHz Vertical Antenna

Laird Technologies' MA8040V is a compact self-supporting HF vertical that delivers excellent DX-hunting performance on 80 and 40 Meters. Only 27 feet tall and weighing in at less than nine pounds, it is small and light enough for one person to handle easily without assistance. Once installed, the MA8040V virtually disappears against a backdrop of trees and foliage.

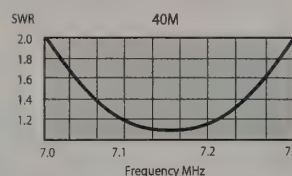
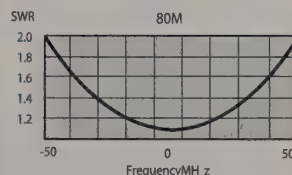
Parallel resonators use a combination of inductive and capacitive top loading to deliver automatic band switching, high efficiency, and rock-bottom SWR on both bands. Designed to handle maximum legal power and built to last year after year, it's the perfect DX solution when the sunspots silence the higher bands. Radial kit included.



### MA160V 160-Meter Vertical Monopole Antenna

The MA160V is a compact efficient vertical especially designed for working top-band DX from an average-size house lot. A low launch angle and deep overhead null combine to pull in distant stations while rejecting local QRM. The MA160V features a heavy-duty high-Q copper loading coil plus a wide 100-inch diameter stainless capacitive hat for high efficiency, resiliency and 1500-Watt power handling. An adjustable stinger provides coverage on any 40-kHz segment across the 1.8-2.0 MHz band. Weighing only 12-pounds, the MA160V installs easily and blends in with backyard trees and vegetation. Each antenna comes with a 400-foot spool of ground-radial wire plus a Danscord™ insulated guying kit.

Specifications:	MA8040V	MA160V
Frequency MHz (MA8040V Tunable)	3.5-7.0 (80M) 7.0-7.3 (40M)	1.8-2.0
Gain, dBi [radial / dependant]	0 (80M), 2 (40M)	0
Minimum VSWR	1.1:1	1.1:1
Bandwidth (2:1 SWR)	100 KHz (80M) 300 KHz (40M)	40 KHz
Polarization	Linear Vertical	Linear Vertical
Power Handling PEP	1500 W	1500 W
Vertical Height (m)	23'-27' (7-8.2)	30'-36' (12-14)
Weight (antenna only) lbs.(kg)	9.0 (4.1)	12 (5.4)
Mount Style	Mast	Mast
Ground Radials	8 Recommended	8 Recommended





# MINI COOPER SHOWN WITH CP-5M UNIVERSAL LIP MOUNT ON THE DOOR EDGE.

All the mounts attach to van doors, truck side doors, SUV doors, etc... and require no holes. Includes 16' 6" deluxe cable assy w/18" mini RG-1888A/U type coax for weather seal entry.

Choose a mount depending on the antenna size and vehicle mounting location space.



## For Small Antennas & Limited Space

MODEL / ANT CONN / COAX CONN

**Maldol EM-5M** SO-239 / PL-259

Footprint: 1.1" x .75"

Max Antenna: 40"

## For Medium Size Antennas

MODEL / ANT CONN / COAX CONN

**COMET CP-5M** SO-239 / PL-259

**COMET CP-5NMO** NMO / PL-259

Footprint: 3.4" x 1.25"

Max Antenna: 60"

## For Tall or Multi-band HF Antennas

MODEL / ANT CONN / COAX CONN

**COMET HD-5M** SO-239 / PL-259

**COMET HD-5 3/8-24** 3/8-24 / PL-259

Footprint: 3.75" x 1.1"

Max antenna: 80"

# Life is a JOURNEY Enjoy the ride!

**COMET BNC-24 DUAL-BAND 2M/70CM HT ANTENNA** RX range: 100-1200MHz  
• Gain: 2.15/3.5dBi • Length: 17" • Conn: BNC Super flexible featherweight whip

**COMET SMA-24 DUAL-BAND 2M/70CM HT ANTENNA** RX range: 100-1200MHz  
• Gain: 2.15/3.5dBi • Length: 17" • Conn: SMA Super flexible featherweight whip

**COMET SMA-503 DUAL-BAND 2M/70CM HT ANTENNA** RX range: 100-1200MHz  
• Length: 8.75" • Conn: SMA

**Maldol MH-209** (BNC Conn) **MH-209SMA** (SMA Conn) **2M/70CM DUAL-BAND HT ANTENNAS**  
3" length, soft rubber cover. Good performance in a small package!

**COMET NEW! CSB750A DUAL-BAND 2M/440MHZ WIFOLD-OVER**

Gain & Wave: 146MHz 3.6dBi 1/2 wave, 446MHz 6.1dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 42" • Conn: PL-259 • Max Pwr: 150W

**COMET NEW! CSB770A DUAL-BAND 2M/440MHZ WIFOLD-OVER**

Gain & Wave: 146MHz 4.4dBi 5/8 wave center load, 446MHz 6.9dBi 5/8 wave x 2 center load • VSWR: 1.5:1 or less • Length: 51" • Conn: PL-259 • Max Pwr: 150W

**COMET NEW! CSB790A DUAL-BAND 2M/440MHZ WIFOLD-OVER**

Gain & Wave: 146MHz 5.1dBi 7/8 wave center load, 446MHz 7.7dBi 5/8 wave x 3 center load • VSWR: 1.5:1 or less • Length: 62" • Conn: PL-259 • Max Pwr: 150W

**Maldol AX-50 DUAL-BAND 2M/440MHZ**

Gain & Wave: 2M 1/4 wave • 70cm 5.0dBi 9/8 wave • Length: 21" • Conn: PL-259 • Max Power: 60W

**Maldol AX-75 DUAL-BAND 2M/440MHZ WIFOLD-OVER**

Gain & Wave: 2M 1/2 wave center load 3.2dBi • 70cm 5/8 wave x 2 5.7dBi • Length: 30" • Conn: PL-259 • Max Power: 60W

**Maldol AX-95 DUAL-BAND 2M/440MHZ WIFOLD-OVER**

Gain & Wave: 2M 1/2 wave center load 3.3dBi • 70cm 5/8 wave x 2 5.8dBi • Length: 38" • Conn: PL-259 • Max Power: 60W

**COMET B-10 / B-10NMO DUAL-BAND 2M/440MHZ**

Gain & Wave: 146MHz 0dBi 1/4 wave • 446MHz 2.15dBi 1/2 wave • Length: 12" • Conn: B-10 PL-259, B-10NMO - NMO style • Max Pwr: 50W

**COMET SBB-2 / SBB-2NMO DUAL-BAND 2M/440MHZ**

Gain & Wave: 146MHz 2.15dBi 1/4 wave • 446MHz 3.8dBi 5/8 wave center load • VSWR: 1.5:1 or less • Length: 18" • Conn: SBB-2 PL-259 • SBB-2NMO NMO style • Max Pwr: 60W

**Maldol EX-107RB / EX-107RBNMO DUAL-BAND 2M/440MHZ**

Gain & Wave: 146MHz 2.6dBi 1/2 wave • 446MHz 4.9dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 29" • Conn: EX-107RB PL-259 • EX-107RBNMO NMO style • Max Pwr: 100W

**COMET SBB-5 / SBB-5NMO DUAL-BAND 2M/440MHZ WIFOLD-OVER**

Gain & Wave: 146MHz 3dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 • Length: 39" • Conn: SBB-5 PL-259, SBB-5NMO - NMO style • Max Pwr: 120W

**COMET SBB-7 / SBB-7NMO DUAL-BAND 2M/440MHZ WIFOLD-OVER**

Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 59" • Conn: SBB-7 PL-259, SBB-7NMO - NMO style • Max Pwr: 70W

# COMET

and **Maldol Mobile**

For a complete catalog, call or visit your local dealer.

Or contact NCG Company, 15036 Sierra Bonita Lane, Chino, CA 91710

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# Life is a JOURNEY Enjoy the ride!

**Maldol MH-511** TRI-BAND 6M/2M/70CM HT ANTENNA • Length: 4" • Conn: Male SMA

**Maldol MH-510** TRI-BAND 6M/2M/70CM HT ANTENNA • Gain: 0/0/3.2dBi • Length: 20.75" • Conn: Male SMA

**COMET HT-224** TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 1.3/1.4/1.8dBi • Length: 11.5" • Conn: Male SMA

**Maldol MH-610** TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 0/1.8/3.2dBi • Length: 14" • Conn: Male SMA

**COMET SBB-224 / SBB-224NMO** TRI-BAND 2M/220/440MHZ WITH FOLD-OVER • Gain & Wave: 146MHz 2.15dBi 1/4 wave • 220MHz 3.5dBi 5/8 wave • 446MHz 6dBi 5/8 wave x 2 • Length: 36" • Conn: PL-259 or NMO style • Max Pwr: 100W

**Maldol EX-510B / EX-510BNMO** TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 1/4 wave • 146MHz 2.15dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 • VSWR: 37" • Conn: PL-259 or NMO style • Max Power: 50W FM

**COMET SB-15** TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 6dBi 1/4 wave • 146MHz 4.5 dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: PL-259 • Max Pwr: 120W

**COMET UHV-4** QUAD-BAND 10M/6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 10M & 6M 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • Length: 55" • Max Power: 10M 120W SSB 6M/2M/70cm 100W FM • Conn: PL-259 • 10M and 6M bands have individual tuning stubs

**COMET UHV-6** HF/6M/2M/440MHZ MOBILE ANTENNA \*80/70/17/40/15/10/6/2M/70cm Mobile antenna with fold-over hinge • Gain & Wave: 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • VSWR: HF 1.6:1 or less, 6M-70cm 1.5:1 or less • Length: 44" (min), 78" (max) • Max Pwr: HF 120W SSB, 6M 200W SSB/100W FM, 2M/70cm 100W FM • \*\*L-14 optional 20M coil • L-18 optional 17M coil • L-3.5 optional 80/75M coil • Features: • 6M/2M/70cm operation is constant. You CHOOSE the HF coils you want to add, up to four stock or optional. One vertical, the rest horizontal. • Easily mounts to standard trunk/door mount in minutes • Economical • Fold-over hinge built in • Select the duplexer or triplexer for your specific radio(s). CF-706A, CF-530, CFX-514N.

#### UHV-6 in fold-over position

Fold-over hinge included for easy entry to garage, parking structure, drive-thru etc. • SB-15 / UHV-4 / UHV-6 / HMC-6S fold-over hinge has a threaded collar to lock the hinge vertically in place. It can't fold-over by itself at highway speed!

**Maldol HMC-6S** \*40/20/15/10/6/2/440MHZ MOBILE ANTENNA WITH FOLD-OVER • Gain & Wave: HF 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.3dBi 5/8 wave x 2 • VSWR: HF 6M 1.6:1 or less 2M/70cm 1.5:1 or less • Length: 66" • Max Power: HF 120W SSB 6/2/70cm 150W FM • HMC-7C optional 40M coil

#### MINI COOPER SHOWN WITH CP-5M UNIVERSAL LIP MOUNT ON THE DOOR EDGE.

All the mounts attach to van doors, truck side doors, SUV doors, etc... and require no holes. Includes 16" 6" deluxe cable assy w/18" mini RG-1888A/U type coax for weather seal entry.

Choose a mount depending on the antenna size and vehicle mounting location space.



#### For Small Antennas & Limited Space

MODEL / ANT CONN / COAX CONN

**Maldol EM-5M** SO-239 / PL-259

Footprint: 1.1" x .75"

Max Antenna: 40"

#### For Medium Size Antennas

MODEL / ANT CONN / COAX CONN

**COMET CP-5M** SO-239 / PL-259

**COMET CP-5NMO** NMO / PL-259

Footprint: 3.4" x 1.25"

Max Antenna: 60"

#### For Tall or Multi-band HF Antennas

MODEL / ANT CONN / COAX CONN

**COMET HD-5M** SO-239 / PL-259

**COMET HD-5318-24** 3/8-24 / PL-259

Footprint: 3.75" x 1.1"

Max antenna: 80"

For a complete catalog, call or visit your local dealer.

Or contact NCG Company, 15036 Sierra Bonita Lane, Chino, CA 91710

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**COMET**  
and **Maldol Mobile**



## UNIVERSAL LIP MOUNTS WITH COAX CABLE COMBINATIONS

Several mounts with coax combos are available to choose from depending on your vehicle's available mounting space and antenna size.

No holes to drill, held securely in place with set screws and adjust in multiple planes. Attach to virtually any lip edge that is 1/4" thick or less: trunk lids, van doors, SUV doors, truck doors, hoods, etc...

Deluxe low loss cable assy included for easy entry thru the weather seal without causing water leaks, wind noise, and/or cable damage.

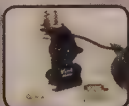
**Max power:** HF 200W  
VHF 75W  
UHF 50W

### For small antennas & limited space

MODEL / ANT CONN / COAX CONN

**Maldol EM-5M** SO-239 / PL-259

Footprint: 1.1" x .75"  
(Less than 1 sq inch!)  
Max Antenna: 40"



### For medium size antennas

MODEL / ANT CONN / COAX CONN

**COMET CP-5M** SO-239 / PL-259

**COMET CP-5NMO** NMO / PL-259

Footprint: 3.4" x 1.25"  
Max Antenna: 60"



### For tall or multi-band HF antennas

MODEL / ANT CONN / COAX CONN

**COMET HD-5M** SO-239 / PL-259

**COMET HD-5 3/8-24** 3/8-24 / PL-259

Footprint: 3.75" x 1.1"  
Max antenna: 80"



**COMET**  
**CP-5M**

Universal lip mount with coax,  
SO-239 and PL-259 connectors.

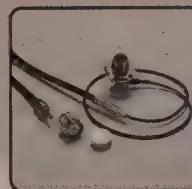
# Life is a JOURNEY. Enjoy the ride!

Combine the coax style and length you need with a bracket from below.  
(assemblies also available with N-connectors)



**COMET**  
**3D5M / 3D4M**

Standard low loss cable assy.  
Gold plated SO-239 / PL-259  
connectors.  
3D5M length 16' 6"  
3D4M length 13'



**COMET**  
**CK-3M5 / CK-3M**

Deluxe low loss cable assy.  
Includes 18" of mini RG-188AU type  
coax for easy entry from a lip mount  
without causing water leaks,  
wind noise or coax damage.  
CK-3M5 length: 16' 6"  
CK-3M length: 9' 9"

Choose the bracket that best fits your antenna and vehicle. All have multiple adjustments  
and fit virtually any lip 1/4" thick or less. Soft rubber protects vehicle finish.



**COMET**  
**RS-840**

Heavy-duty, 2 adjustment  
planes. For HF and heavier  
antennas up to 80".



**COMET**  
**RS-730**

Heavy-duty, 4 adjustment  
planes, up to 60" antenna.



**COMET**  
**RS-720 / RS-720NMO**

Med-duty, 3 adj planes, 60" ant.  
RS-720: Accepts SO-239 conn  
RS-720NMO: Accepts NMO conn



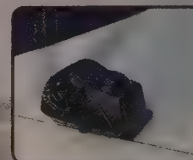
**COMET**  
**RS-520**

Light-duty, 3 adjustment  
planes, up to 45" antenna.



**Maldol**  
**PRM-T**

Heavy-duty, 3 adjustment  
planes, up to 80" antenna.



**Maldol**  
**MK-30H**

12VDC motorized mount. Mounts  
to vertical or horizontal door lip.  
Up to 70"/19 oz. antenna.



**Maldol**  
**EM-B80**

Light-duty, 2 adjustment  
planes, up to 40" antenna.



**COMET**  
**GRB-5M**

Trunk lip mount, low-profile, black  
anodized stainless steel. Offset washers  
provide up to 17 deg. vertical adjustment

of antenna. 16' 9" of deluxe cable included, 18" of mini RG-188AU  
style coax for easy entry thru the weatherseal. Gold-plated SO-239/  
PL-259 connectors.

The rear doors on newer trucks are the perfect place to mount  
antennas • No holes to drill • Above roof line • Easy access • When  
mounting to a van, SUV, truck, etc., use the CP-5M or build your own  
system with components shown above. There are several mount  
sizes, coax diameters and coax lengths from which to choose.



**COMET**  
and **Maldol** Mobile

For a complete catalog, call or visit your local dealer.  
Or contact NCG Company, 15036 Sierra Bonita Lane, Chino, CA 91710  
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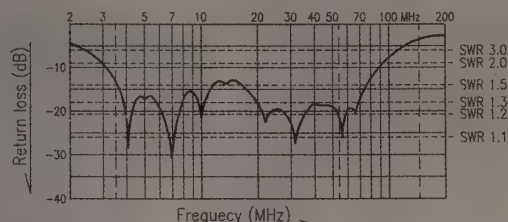


# Life is a JOURNEY

## Enjoy the ride!

**COMET**  
and **Maldol**

**Base Antennas**



CHA-250B VSWR graph

"One person can effortlessly raise the antenna at night when no one can spot it, and take it down before daybreak. This antenna is also a great choice for portable operations, such as quick and easy mini-DXpedition to a campground or a nice tropical island! In short, the Comet CHA-250B is simple to assemble, painless to elevate and is easy on the eyes, while at the same time getting you on 6 meters thru 80 meters without the requirement of an antenna tuner and ground radials. You'll even be able to work some DX while you're at it!" — Dan Dankert N6PEQ

### COMET NEW CHA-250B BROADBAND HF/6M GROUND-PLANE ANTENNA

A newly designed broadband vertical with NO GROUND RADIALS. EXTREMELY easy to assemble, requires no tuning or adjustments and VSWRs under 1.5:1 from 3.5-57MHz • TX: 3.5MHz • RX: 2.0-90MHz • VSWR is 1.5:1 or less, continuous • Max Power: 250W SSB/125W FM • Impedance: 50 Ohm • Length: 23' 5" • Weight: 7 lbs. 1 oz. • Conn: SO-239 • Mast Req'd: 1" - 2" dia. • Max wind speed: 67MPH

### COMET GP-15 TRI-BAND 52/146/446MHZ BASE REPEATER ANTENNA

Gain & Wave: 52MHz 3.0dBi 5/8 wave • 146MHz 6.2dBi 5/8 wave x 2 • 446MHz 8.6dBi 5/8 wave x 4 • Max Pwr: 150W • Length: 7'11" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239 • 2MHz band-width after tuning (6M) • Construction: Single-piece fiberglass

### COMET CX-333 TRI-BAND 146/220/446MHZ BASE REPEATER ANTENNA

Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 220MHz 7.8dBi 5/8 wave x 3 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 120W • Length: 10'2" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

### COMET GP-3 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA

Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Max Pwr: 200W • Length: 5'11" • Weight: 2lbs. 9ozs. • Conn: Gold-plated SO-239 • Construction: Single-piece fiberglass

### COMET GP-6 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA

Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 200W • Length: 10'2" • Weight: 3lbs. 8ozs. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

### Maldol HVU-8 ULTRA-COMPACT 8 BAND HF/VHF/UHF VERTICAL ANTENNA

80/40/20/15/10/6/2M/70cm Only 1/2 the traditional size and weight of vertical HF antennas, and it includes 2M/70cm! Unique radial system rotates for balcony installations, the radials can all be rotated to one side, • HF and 6M: 1/4 wave-length • Gain 2M: 1/2 wave-length, 2.15dBi • Gain 70cm: Two 5/8waves in phase, 5.5dBi • Impedance: 50 Ohm • Max Power: HF 200W SSB • 6M-70cm: 150W FM • Conn: SO-239 • Height: Only 8'6" • Weight: 5lbs. 7ozs.

### COMET GP-9 / GP-9N DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA

BEST SELLER! Gain & Wave: 146MHz 8.5dBi 5/8 wave x 3 • 446MHz 11.9dBi 5/8 wave x 8 • Max Pwr: 200W • Length: 16' 9" • Weight: 5lbs. 11ozs. • Conn: GP-9 Gold-plated SO-239 • GP-9N Gold-plated N-type female • Construction: Fiberglass, 3 Sections

### COMET NEW H-422 QUAD-BAND HF DIPOLE

Compact 40/20/15/10M "V" or Horizontal Dipole • Max power: 1kW SSB • Length "V" Dipole: 24' 3" • Horizontal Dipole: 33' 10" • Shipping length: 79" • Weight: 11 lbs 14 ozs • Wind Load: 3.02 sq feet • Required mast size: 1.5" - 2.5" diameter • CBL-2000 2kW Balun included • Simple installation, band tuning and profile change

**COMET**  
and **Maldol** Antennas

For a complete catalog, call or visit your local dealer.

Or contact NCG Company, 15036 Sierra Bonita Lane, Chino, CA 91710

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**ACCLAIMED AS THE TECHNOLOGICAL LEADER IN SINGLE & MULTIBAND ANTENNAS**

Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable  
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

## Ruggedized Base/Repeater Antennas

### X500HNA - X50NA - X30A

**X500HNA**

Diamond Antenna's best base station repeater antenna. Designed for strength and performance, the X500HNA is pretuned to achieve maximum gain in both the 2m and 70cm amateur bands.

**Features**

- Heavy duty fiberglass radome
- Overlapping outer shells for added strength
- Stainless steel mounting hardware and radials
- Strong, waterproof joint couplings
- Type-N Cable connection
- Wide band performance

**Specifications:**

Frequency: 2m: 144-148 MHz 70cm: 440-450 MHz  
Gain: 2m: 8.3 dB 70cm: 11.7 dB  
Power<sup>1</sup>: 200 watts  
Wind Rating: 90 MPH (no ice)  
Height: 17.8 feet

**X50NA**

The X50NA is an excellent choice where ruggedness is required in a medium-gain, dual-band, base/repeater application.

**Features**

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel mounting hardware and radials
- Type-N Cable connection
- Compact size for easy mounting/installation

**Specifications:**

Frequency: 2m: 144-148 MHz  
70cm: 440-450 MHz  
Gain: 2m: 4.5 dB  
70cm: 7.2 dB  
Power<sup>1</sup>: 200 watts  
Wind Rating: 135 MPH (no ice)  
Height: 5.6 feet

**X30A**

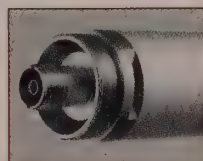
The X30A works well in areas where height and/or antenna restrictions are an issue.

**Features**

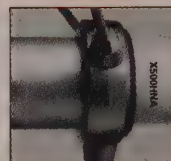
- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel hardware
- UHF Cable connection
- Compact size for easy installation

**Specifications:**

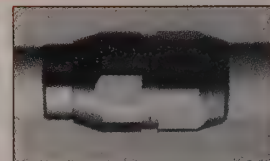
Frequency: 2m: 144-148 MHz  
70cm: 440-450 MHz  
Gain: 2m: 3.0 dB  
70cm: 5.5 dB  
Power<sup>1</sup>: 150 watts  
Wind Rating: 135 MPH (no ice)  
Height: 4.5 feet

**X500HNA**

COAX CONNECTION  
AT BASE END



HEAVY DUTY BASE/  
RADIAL ASSEMBLY



STRONG JOINT  
COUPLINGS

**Mono-Band Base/Repeater Antennas**

MODEL	BAND (MHz)	GAIN (dB)	WATTS <sup>1</sup>	CONN.	HT. FT.	RATED WIND MPH (No Ice)
CP22E <sup>1</sup>	144	6.5	200	UHF	9.0	70
DPGH62 <sup>1</sup>	50	6.0	200	UHF	21.0	78
F22A	144	6.7	200	UHF	10.5	112
F23H <sup>1</sup>	144-174	7.8	350	UHF	15.0	90
BC200 <sup>1</sup>	430-490	6.5	200	UHF	5.6	130
F718A	440	11.5	250	N	15.0	90
F1230A II	1.2 GHz	13.8	100	N	12.0	112
G200	2.4 GHz	11 dBi	—	N	4.8	135

**Dual-Band Base/Repeater Antennas**

MODEL	BAND (MHz)	GAIN (dB)	WATTS <sup>1</sup>	CONN.	HT. FT.	RATED WIND MPH (No Ice)
X30A	144/440	3.0/5.5	150	UHF	4.5	135
X50A	144/440	4.5/7.2	200	UHF	5.6	135
X50NA	144/440	4.5/7.2	200	N	5.6	135
X200A	144/440	6.0/8.0	200	UHF	8.3	112
X300A	144/440	6.5/9.0	200	UHF	10.5	112
X300NA	144/440	6.5/9.0	200	N	10.5	112
X510HDN	144/440	8.3/11.7	330/250	N	17.2	90
X510HDM	144/440	8.3/11.7	330/250	UHF	17.2	90
X500HNA	144/440	8.3/11.7	200	N	17.8	90+

**Tri-Band Base/Repeater Antennas**

MODEL	BAND (MHz)	GAIN (dB)	WATTS <sup>1</sup>	CONN.	HT. FT.	RATED WIND MPH (No Ice)
V2000A <sup>35</sup>	52/144/440	2.1/5.2/8.4	150	UHF	8.3	110
X3200A <sup>4</sup>	146/222/440	6.0/7.8/8.0	100/200	UHF	10.5	112
X6000A	144/440/1240	6.5/9.0/10.0	100/60	N	10.5	112

BAND: 144=144-148 MHz, 222=222-225 MHz.  
420=420-430 MHz, 430=430-440 MHz.  
440=440-450 MHz, 1240=1240-1300 MHz.

<sup>1</sup> Power rating should be reduced in repeater service.

NOTES: <sup>1</sup> Heavy duty aluminum construction.

<sup>2</sup> X510N: 144-147/430-440 MHz.

<sup>3</sup> 1/4", rated in dBi.

<sup>4</sup> 2m: 146-148; 100 watts

<sup>5</sup> 52-54 MHz only. Tunable.

<sup>6</sup> Tunable for 10MHz BW.

<sup>7</sup> 1.25 Bandwidth.

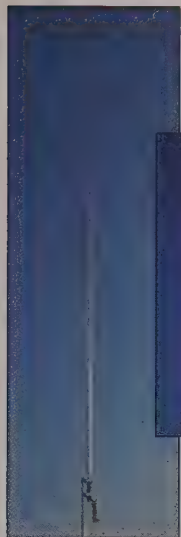
<sup>8</sup> Tunable 144-174 with cutting chart.



# MULTIBAND VERTICAL & YAGI ANTENNAS

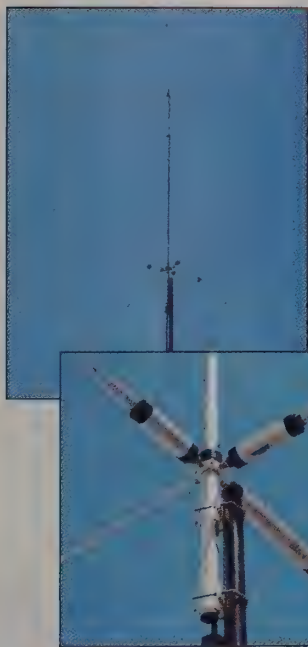
Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable  
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

## BB7V Multiband Vertical Antenna



Diamond's new **BB7V** multiband vertical antenna provides coverage from 2 MHz to 30 MHz without radials. The BB7V has 6 telescoping sections that nest in each other with a collapsed length of 5 feet and extends to a length of 22 feet when fully deployed. These sections are self locking (no hardware to lose) and can be raised or lowered in less than a minute. For permanent use, each section can be locked in place with a single screw. The extreme ease of raising and lowering this 4.5 pound antenna will make it a favorite for those who have antenna restrictions or travelers wanting a quick and easy wide band antenna solution.

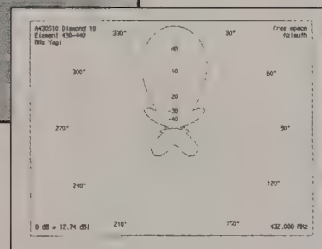
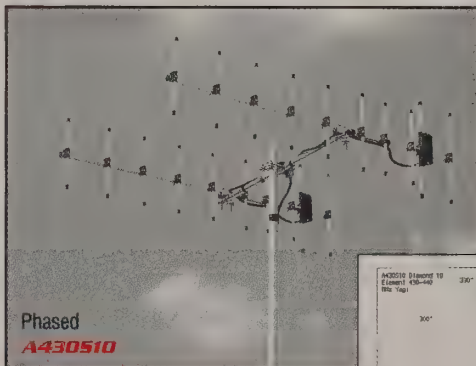
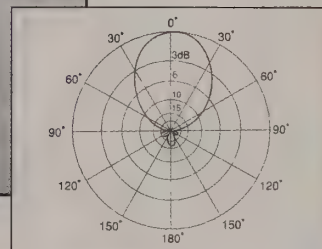
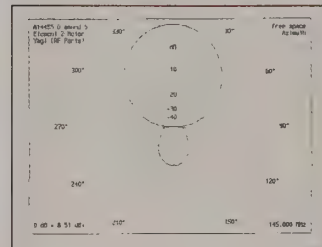
## CP725H Quad Band Vertical Antenna



Diamond's new **CP725H** is a four band (6M, 10M, 15M and 40M) vertical antenna with trap radials. Its light weight, 6.6 pounds, makes it very manageable during the installation process and will allow for a simple mast solution. It is 11.8 feet tall with 71" long radials that can be mounted 360 degrees around the antenna or concentrated on one side if you need to mount it close to a structure.

Because of its light weight, and the ability to concentrate radials on one side, the CP725H could be used in an antenna restricted situation where the mast was lowered on its side during daylight and raised while operating during the evening.

## Yagi Antennas



Vertical Antennas						
MODEL	FREQ (MHz)	IMPED	WATTS (PEP)	CONN.	BOOM LNTH.	WEIGHT
BB7V	2-30 (W/TUNER)	50Ω	250	UHF	60"/22'	4.5 lbs.
CP725H	6m/10m/15m/40m	50Ω	200/400/500/500	UHF	11.8'	6.6 lbs.
CP5H	6m/10m/15m/20m/40m	50Ω	500/500/400/400/200	UHF	11.8'	6.6 lbs.

Yagi Antennas						
MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN.	BOOM LNTH.	ELEMENT PHASING
A502HB	50	6.3	400	UHF	2.6'	2 element
A1445S	144	9	100	UHF	37.5"	5 element
A430510	432	13	100	UHF	43"	10 element
A430515	432	14.8	100	UHF	89"	15 element



# DIAMOND'S STATE-OF-THE-ART VHF/UHF & HF/VHF MOBILE ANTENNAS

*Maximum Performance Without Compromise*

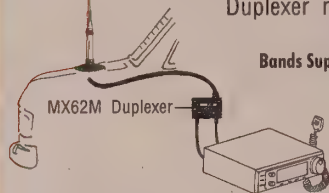
## HV7A Mobile Antenna System

For New HF/VHF transceivers

(Such as: IC706 & IC7000 series, FT100, FT857 & FT8900R)

The HV7A has 5 band capability: 70cm, 2m, 6m, plus 2 HF bands through use of loading coils. Foldover feature allows for easy access into low over-head buildings. Ideal for users of IC706 & IC7000 series, FT100, FT857 and FT8900R radios.

Duplexer may be required for some radios.



Recommended Antenna Mounts:  
K400C, K400S, K600S or K600M

### Bands Supplied:

10m/6m/2m/70cm

### Power, PEP:

HF 120w/VHF 200w

### Mount Connection:

UHF

### Length:

54"

### SWR:

1.5:1 nominal

### Opt. Loading Coils:

HVC7 40m

HVC14 20m

HVC18 17m

HVC21 15m



## FOLD-OVER

One-Touch Fold-Over Feature.\*\*

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN.	HT. IN.	ELEMENT PHASING 1/4λ rated in dBi.
M2855*10	2m	3.4	200	UHF	52.4	5/8λ
M2855NMO*10	2m	3.4	200	NMO	52.4	5/8λ
NR22L*	2m	6.5	100	UHF	96.8	2-5/8λ
HF6FX*	6m	2 dBi	250	UHF	40	1/4λ
HF50CX*	6m	3.5 dBi	200	UHF	75	3/8λ
M6855*	6m	2.15 dBi	200	UHF	52.4	1/4λ
M6855NMO*	6m	2.15 dBi	200	NMO	52.4	1/4λ
NR140BNMO	1-1/4m	4.0	150	NMO	37	1/2λ+1/4λ
NR124NMO	23cm	8.4	100	NMO	25	4-5/8λ
MG200	2.4GHz	7 dBi	-	N	23.6	3-1/2λ
CR270A	2m/70cm	2.15/3.4	50	UHF	17	1/4λ, 5/8λ
MR77	2m/70cm	2.15/3.4	70	MAG	20	1/4λ, 1/2λ
MR77SMA	2m/70cm	2.15/3.4	70	MAG	20	1/4λ, 1/2λ
NR72BNMO*	2m/70cm	2.15	100	NMO	13.8	1/4λ, 1/2λ
NR73BNMO	2m/70cm	2.15/5.3	100	NMO	33.5	1/2λ, 1-5/8λ
NR770HA*	2m/70cm	3.0/5.5	200	UHF	40.2	1/2λ, 2-5/8λ
NR770HNMO*	2m/70cm	3.0/5.5	200	NMO	38.2	1/2λ, 2-5/8λ
NR7900A*	2m/70cm	3.7/6.4	300/250	UHF	57	1/4λ+1/2λ, 3-5/8λ
SG7000A*	2m/70cm	2.15/3.8	100	UHF	18.5	1/4λ, 6/8λ
SG7500A	2m/70cm	3.5/6.0	150	UHF	40.6	1/2λ, 2-5/8λ
SG7500NMO	2m/70cm	3.5/6.0	150	NMO	41.0	1/2λ, 2-5/8λ
SG7900A*	2m/70cm	5.0/7.6	150	UHF	62.2	7/8λ, 3-5/8λ
SG7900ANMO*	2m/70cm	5.0/7.6	150	NMO	62	7/8λ, 3-5/8λ
CR320A*	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	UHF	37.4	1/4λ, 1/2λ
CR320BNMO*	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	NMO	38	2-5/8λ
NR2000NA	2m/70cm/23cm	3.15/6.3/9.7	100	N	39	1/2λ, 2-5/8λ, 5-5/8λ
CR627B*6,9	6m/2m/70cm	2.1/4.5/7.2	120	UHF	60	1/4λ, 1/2λ+1/4λ
CR627BNMO*6,9	6m/2m/70cm	2.1/4.5/7.2	120	NMO	60	2-5/8λ
CR8900A*6,11	10m/6m/2m/70cm	2.1 (2m) 5.5 (70cm)	60	UHF	50	1/4λ, 1/4λ 1/2λ, 2-5/8λ

6 Grounding required

7 NR770HB some specs but in black finish.

8 NR770HBNMO some specs but in black finish.

9 52-54MHz only

10 Tunable from 140-174MHz

11 FM only

\* Not recommended for Magnet Mount

\*\* Fold-Over not available on CR-270A, M285, M2855NMO, M685, M6855NMO, MG200, MR77, NR77SMA, NR72BNMO, and NR73BNMO

See Price Guide for additional models and pricing. ♦ Indicates New Item.

Diamond Antenna Division of RF Parts Co. Tel: (770) 614-7443 • FAX: (770) 614-7480 • www.diamondantenna.net



# HT/SCANNER ANTENNAS

## HT/Scanner Antennas

High quality, high gain HT antennas for mono, dual, and tri-band handheld radios. Available in both BNC and SMA connections. Increase the performance on your handheld or wideband scanner with a Diamond RH or SRH Series antenna.

### SRH320A SMA

2m/1-1/4m/70cm tri-band HT antenna. Flexible. 13 3/4". 10 watts, +3dBR.



### SRH805 SMA

2m/70cm/23cm tri-band HT antenna. 1.75". 10 watts.



### SRH815 SMA

2m/70cm/23cm tri-band HT antenna. Flexible. 6". 6 watts, +3dBR.



### SRH940 SMA

6m/2m/70cm flexible tri-band HT antenna. 18", 10 watts, +2.15dBi. 1/4λ 50-144MHz, 1/2λ 440MHz.



### SRH789 SMA

Adjustable 1/4λ 93-300MHz; 5/8λ 300-1100MHz, 7 3/4"-32" +9dBR.

### RH9515 BNC

High gain 2m/70cm/23cm slim tri-band HT antenna. Flexible. 14" (Wide band receive), +6dBR.



### RH3 BNC

2m/70cm dual band "Black Buller" HT antenna. 1.75". 120-900 receive.



### RH77CA BNC

High gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", +6dBR.



### SRH77CA SMA

High gain 2m/70cm dual band flexible HT antenna. 15", 10 watts, +6dBR.



### SRHF40 SMA

### RHF40 BNC

Super flexible, high gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", +6dBR.

### RH205 BNC

2m HT antenna, telescopic, 5/8λ fully extended, 47.5"; 1/4λ retracted, 9", +9dBR.



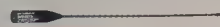
### RH707 BNC

2m/70cm dual-band tiltable whip - HT antenna. 8 1/4", +3dBR.



### SRH999 SMA

6m/2m/70cm/23cm quad-band HT antenna. Flexible. 19.5", 10 watts, +6dBR.



### SRH519 SMA

### RH519 BNC

2m/70cm slim dual-band HT antenna. Flexible. 8", 10 watts, +3dBR.

NOTES: 1. dBR refers to Relative Gain increase over typical factory supplied antenna.

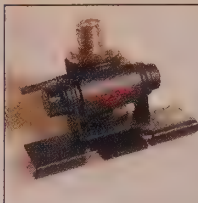
## Mobile Discone Antenna

The D220 mobile discone antenna offers outstanding broadband reception performance from 100MHz to 1600MHz. The discone is vertically polarized and omnidirectional. The upper element is tuned for the 144, 440, 902 and 1.2Ghz ham bands and allows you to transmit at a maximum power level of 50 watts. The antenna will mount on the Diamond K400/K600 series of mounts, and will withstand wind speeds in excess of 100MPH.

Receive:	100 to 1600MHz
Transmit:	144, 440, 902, 1200MHz
Gain:	2.15dBi 144, 902, 1200MHz, 5.5dBi 440MHz
Power:	50watts PEP
Impedance:	50 ohms
VSWR:	less than 1.5:1
Type:	1/2 wave 144MHz, 2 x 5/8 wave 440MHz
Length:	35.5" / .90m
Weight:	.85 pounds / 385g
Connector:	UHF / PL259
Mounts:	K400 and K600 series



## PREMIUM ANTENNA MOUNTS

**K400 Series****Heavy Duty Hatchback/Door/Trunk Lid Mount**

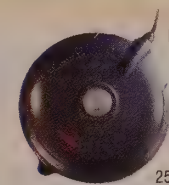
Deluxe heavy duty mount. Two-axis adjustable. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas. Will support ATAS 120, Tarheel II, High Sierra Sidekick & Outbacker.

- K400C\*** SO-239 base, 6.5' RG-316/B coax & PL-259  
**K400CNMO\*** NMO base, 6.5' RG-316/B coax & PL-259  
**K400-3/8C\*** 3/8x24 base, 6.5' RG-316/B coax & PL-259  
**K400S** SO-239 base, 13.5' RG-316/B coax & SMA  
**K400SNMO** NMO base, 13.5' RG-316/B coax & SMA

**K412 Series****Deluxe Hatchback/Door/Trunk Lid Mount**

Three-axis adjustable mount for light weight antennas. 1.5 inch mounting width. Ideal for tight mounting options. Recommended for antennas under 45". Position adjusting knob.

- K412C\*** SO-239 base, 6.5' coax & PL-259  
**K412CNMO\*** NMO base, 6.5' coax & PL-259  
**K412S** SO-239 base, 13.5' coax & SMA  
**K412SNMO** NMO base, 13.5' coax & SMA

**K702M****Deluxe Low Profile Magnet Mount**

Magnet mount with high holding power. Aerodynamic styling, large 6 3/8" dia., 3/4" h. For VHF/UHF antennas up to 50" h. Includes thin mylar protective sheet to enhance grip and protect paint. SO-239 base, 13' RG58A/U cable with PL-259 connector.

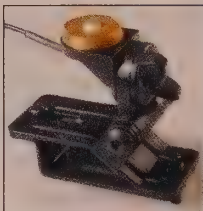
**Heavy Duty Magnet Mount**

2.2 lb./4" magnet mount rated 25-500 MHz. Cable: 13' RG58A/U coax and PL-259. Recommended for antennas under 45".

- SPM35** SO-239 mount, with PL-259 connector.  
**DPK4NM-N** Type-N mount, with Type-N connector.  
**SPM-NMO** NMO mount, with PL-259 connector.

**K515 Series****Universal Luggage Rack Mount**

Ideal for new SUV luggage racks; accepts 3/4" to 2-1/4" in height and up to 2-1/4" wide. Two axis adjustable mount for medium-weight VHF/UHF antennas under 45", not requiring RF ground. Position adjusting knob allows antenna to fold over, and lock into horizontal position.



- K515S** SO-239 base, 13.5' coax & SMA, PL-259  
**K515SNMO** NMO base, 13.5' coax & SMA, PL-259

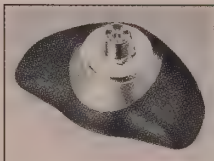
**K550****Luggage Rack Mount**

Adjustable luggage rack mount for new mini vans. Recommended for antennas under 45". Position adjusting knob allows antenna to fold to horizontal position.

- K550KM** SO-239 base, 13' coax & PL-259  
**K550** Mount Only

**K600****Variable Angle Trunk Mount**

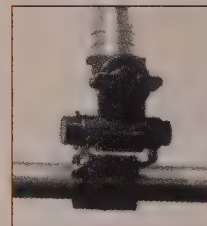
Deluxe aerodynamic trunk mount. Vertical adjustment 0-90°. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.



- K600M** SO-239 base, 16.5' two-step RG-188 Teflon® + 10" 5D coax & PL-259  
**K600S** SO-239 base, 13.5' RG-316 Teflon® coax & SMA

**HRKS****Adhesive Backed Mount**

Adhesive backed for flat surface installations including glass, fiberglass, and metal. SO-239 base, 13.5' RG-316/B Teflon® coax with SMA connector. PL-259 adapter included. Recommended antennas: NR770HA, NR770HB, and SGM510.

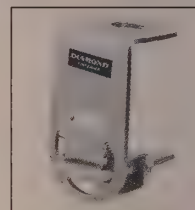
**K540****Mirror/Luggage Rack Mount**

Adjustable Mirror/Luggage rack mount accepts 1/2" to 7/8" tubing. Fits most mirrors and utility racks. Recommended for antennas under 45". Position adjusting knob allows antenna to fold over and lock into horizontal position.

- K540KM** SO-239 base, 13' coax & PL-259  
**K540** Mount Only

**CRM****Mirror/Luggage Rack Mount**

Stainless steel right angle mount with U-bolt. Recommended for: Motor home ladders, Balcony railings and Lumber racks.

**K9000****Motorized Mount**

Raise and lower your antenna with a touch of a button. Accepts "ground independent" antennas up to 45". 0-90° range. Recommended antennas: SG7500NMO, NR73BNMO, SG7500A, and NR770 series. Recommended cable group: C213 / C213NMO

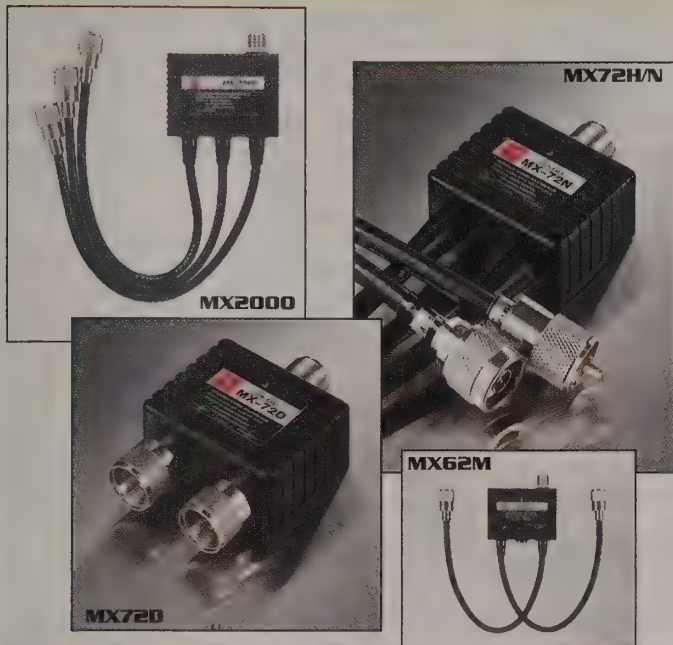
- K9000TM\*** Trunk/Hatchback Mount  
**K9000LRM\*** Luggage Rack Mount  
**K9000LRMO\*** Luggage Rack Mount - Oversize/K515 style clamp.

\* Use C110 for front radio installations.  
 † Includes SMA to PL259 adapter.



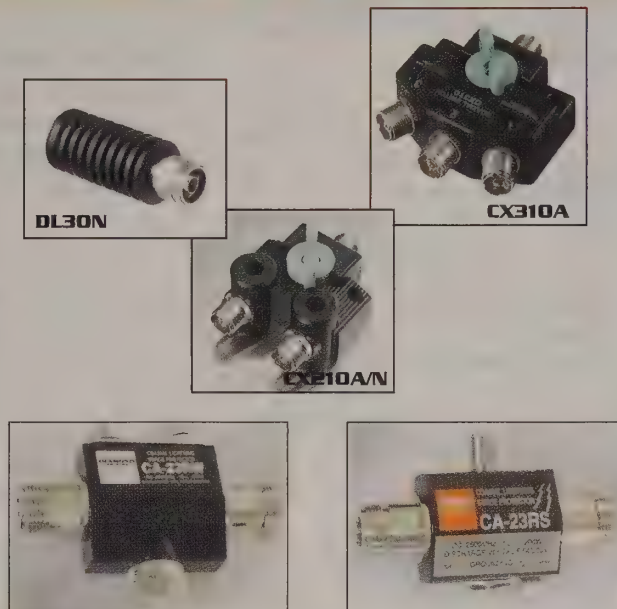
# CABLE ASSEMBLIES - COAX SWITCHES LIGHTNING PROTECTION - DUPLEXERS & TRIPLEXERS

## Duplexers & Triplexers



MODEL	MX72D	MX72H	MX72N	MX2000			MX62M	
FREQUENCY	LPF		HPF	LPF	BPF	HPF	LPF	HPF
BAND (MHz)	1.6-30	140-150	400-460	1.6-60	110-170	300-950	1.6-56	76-470
PWR CW (ICAS)	400	150	100					
WATTS P.E.P.	1000	400	250	800	800	500	600	
THRU LOSS/dB	0.15	0.15	0.25	0.15	0.2	0.25	0.2	0.3
ISOL	60dB			60dB			50dB	
VSWR	1.2:1			1.2:1			1.2:1	
CONNECTOR COMPLEMENT	(M) MIX 144 430 (M) (M)	(M) MIX 144 430 (M) (M)	(M) MIX 144 430 (M) (N)	(M) MIX 50 144 430 (M) (M) (M)			(M) HF VHF (M) (M)	
CONNECTOR	Direct	12" Cable w/Connectors		12" Cable w/PL259			12" Cable w/PL259	

## Dummy Loads & Coaxial Switches



MODEL	DESCRIPTION
CA35RPW	Lightning surge protector, DC-1000 MHz, 400w, UHF(F) to UHF(M), Waterproof.
CA23RS	Lightning surge protector, DC-2500 MHz, 200w, Type-N (F)
CA23RW	Lightning surge protector, DC-2500 MHz, 200w, Type-N (F), Waterproof.
CX210A	Heavy duty wideband coax switch, DC-1000 MHz. 1.5 kW, SO-239
CX210N	Heavy duty wideband coax switch, DC-1500 MHz. 1.5 kW, Type-N
CX310A	Heavy duty wideband coax switch, 3 position, DC-800 MHz, SO-239
DL30N	Dummy load, DC-500 MHz. 15w average/100w peak, Type-N

## Cable Assemblies



### C101

SO-239 base, 6.5' RG316 Teflon® coax & PL-259. Ideal cable assembly for trunk mount radios.

### C101NMO

Same as C101 with NMO base. For Diamond's K-Series mounts.

### C213

Same as C101, 13.5' RG-316 Teflon® cable

### C213NMO

Same as C101NMO, 13.5' RG-316 Teflon® cable

### C101-3/8C

Same as C101, 13.5' RG-316 Teflon® cable

### C101-3/8CKIT

Upgrades any K400 mount to a K400-3/8C. Includes 3/8-24 hardware & C101-3/8C cable assembly

### C104SMA

4' extension cable for HT's with SMA connector. For existing cable assemblies with PL-259. UHF female (SO-239) to right angle SMA male.

### C110

Extension for C101. 10' RG8X coax w/mini UHF Conn. Use C110 to extend cable for front radio installations.

### C110BNC

10' assembly similar to above, uses RG316 Teflon® Coax terminating in BNC-male.

### C110SMA

Similar to C110BNC, terminates in SMA-male.

### C211

SO-239 base, 16.5' assembly & PL-259. Combination of C101 & C110.

### C105SMA

5' extension cable for C101. RG58/U cable, terminating in right angle SMA male.



# LARSEN - The Amateur's Professional

## 2M/70CM Dual Band Series Antennas

Larsen dual band antennas provide excellent performance for simultaneous use of VHF and UHF amateur frequencies. Each Larsen dual band antenna is factory preset to guarantee optimum performance with no tuning required.

### NMO2/70SH . . . . . \$52.99

Freq: 144-148/440-450 MHz  
Gain: Unity/1.8 dBd  
Power: 200 Watts  
Type: VHF: Center Loaded 1/4 Wave  
UHF: Center Loaded 3/4 Wave  
Base: NMOUHFBASEB  
Height: 19"  
Whip: WNM02/70SH

Lower profile amateur 2m/70cm dual band antenna with spring for NMO mounts.

### NMO2/70B . . . . . \$84.99

Freq: 144-148/440-450 MHz  
Gain: 1.6/3.5 dBd  
Power: 100 Watts  
Type: VHF: Center Loaded 1/2 Wave  
UHF: Collinear  
Base: NMO2/70BCO  
Height: 36.75"  
Whip: W2/70B

Amateur 2m/70cm dual band antenna for NMO mounts.

### Tri-Band Scanner Antenna

### NMO150/450/800 . . . . . \$32.99

Freq: 150-165/450-470/806-940 MHz  
Gain: -7/0/1 dBd  
Type: Tri-Band Scanner Only  
Mount: NMO  
Height: 16.5"

## Kulglass Series High Performance Glass Mount Antennas

Larsen's Kulglass™ (KG) series uses a patented low impedance design and advanced materials to produce the world's best on-glass antenna. The KG uses advanced resin polymer plastic to completely enclose the circuit board or loading coil for mechanical durability and weather resistance. 3M's best adhesive tape, plus Larsen's unique bonding enhancer ensure the best possible grip to the glass.

### KG2/70CXPL . . . . . \$149.99

Freq: 144-148/442-448 MHz  
Gain: 0/2 dBd • 2.4/4.5 dBd\*  
Power: 100 Watts  
Type: VHF: 1/2 Wave  
UHF: Collinear  
Base: KG2/700/S  
Conn: PL-259  
Height: 32.75"

\* Ground plane required for gain.

Glass mount dual band antenna for 2m/70cm amateur radio frequencies with coax and connector.

### KG144UDPL . . . . . \$94.99

Freq: 144-160 MHz  
Gain: Unity  
Power: 100 Watts  
Type: 1/2 Wave  
Base: KG1440/S  
Conn: PL-259  
Height: 48"  
Whip: WKG144

Complete KG glass mount antenna with coax and connector

## Base Station Antennas

Larsen manufactures a variety of small base station antennas for directional and omni-directional applications. Each base station antenna is designed with premium materials to withstand the most demanding weather conditions. All base station antennas come with mounting hardware to attach to a pole up to 2" in diameter.

### BSAKIT . . . . . \$56.99

Freq: 144-512 MHz  
VSWR: 1.5:1 or less  
Power: 200 Watts  
Conn: UHF Female  
Whip: 51.75"

Complete base station kit for designing a base station unit from 144-152 MHz. Comes with mounting hardware (antenna is extra). Works with NMO and UHF mount antennas.

Mounting Pipe Not Included

## Larsen Exclusive Kulduckie Portable Series

Superior transmit range and tough mechanical durability are the hallmark of Larsen portables. Full soldered connections and silver-plated components improve electrical efficiency. Double spring BNCs reduce wear on the mount. Other styles are available.

### KD142MHW . . . . . \$29.99

CLOSEOUT

Freq: 144-148 MHz  
Gain: Unity  
Power: 25 Watts  
Type: 1/2 Wave Telescoping  
Conn: BNC  
Height: 11 to 44.5"  
Whip: WKD142HW

### KD42/70 . . . . . \$42.99

Freq: 144-148/440-450 MHz  
Gain: Unity  
Power: 25 Watts  
Type: VHF: Loaded 1/4 Wave  
UHF: 1/4 Wave  
Conn: BNC  
Height: 9"

Impedance matching transformer provides high Q and deeper resonance.

### OM150CK . . . . . \$69.99

Complete self-mounting, no ground plane antenna with internally attached cable. Black coil, chrome whip, field tunable.

Freq: 144-174 MHz  
Gain: 2.5 dBd\*  
Power: 200 Watts  
Type: 1/2 Wave  
Height: 51.75"  
Whip: W490  
Coax: 17' of RG-58A/U  
Conn: PL-259

\* Ground plane required for gain.

## Mobile GPS Antenna

### GPSNMO02 . . . . . \$69.99

Freq: 1575.4 MHz  
Gain: 5 dBic/28 ± 2 dB (LNA)  
Voltage: 5 VDC  
Type: GPS NMO  
Height: 1.3"  
Diameter: 3"



A Pulse Brand  
3611 NE 112th Avenue  
Vancouver, WA 98682  
360-944-7551 / 800-426-4656  
Fax: 800-525-6749  
Email: info@larsen.pulseeng.com  
Web: www.larsen-antennas.com



# Hear The Difference!

## Industry's Best NMO Mobile Antennas

Larsen's version of the standard 3/4" Motorola TAD/TAE type mount (NMO) uses advanced design, materials and construction to provide a premium mount. For demanding outdoor applications, the chemical resistant NMO series is housed in a resin polymer plastic shell which is completely molded around the nickel plated brass whip stud to eliminate moisture damage. Our super seal gasket also greatly reduces water intrusion under the base.

**NMO27C (Chrome)** . . . . . \$35.99

**NMO27B (Black)** . . . . . \$39.99

Freq: 27-31 MHz  
Gain: Unity  
Power: 150 Watts  
Type: Loaded 1/4 Wave  
Base: NMO27BCO  
Height: 53"  
Whip: W490

**NMO50C (Chrome)** . . . . . \$35.99

**NMO50B (Black)** . . . . . \$39.99

Freq: 47-54 MHz  
Gain: Unity  
Power: 150 Watts  
Type: Loaded 1/4 Wave  
Height: 52.5"  
Whip: W490

**NMOQSPEC (Chrome)** . . . . . \$12.99

**NMOQSPECB (Black)** . . . . . \$18.99

**NMOQSPEC (3/4" Kit Chrome)** . . . \$28.99

Freq: 136-960 MHz  
Gain: Unity  
Power: 200 Watts  
Type: 1/4 Wave  
Height: 22"  
Whip: W200

**NMO150C (Chrome)** . . . . . \$33.99

**NMO150B (Black)** . . . . . \$36.99

Freq: 144-174 MHz  
Gain: 3 dBd  
Power: 200 Watts  
Type: 5/8 Wave  
Height: 51.5"  
Whip: W490

**NMO440C (Chrome)** . . . . . \$32.99

Freq: 440-460 MHz  
Gain: 3.4 dBd  
Power: 200 Watts  
Type: 5/8 over 1/2 Wave  
Height: 33"  
Whip: W154

**NMO900B (Black)** . . . . . \$42.99

Freq: 890-960 MHz  
Gain: 3.4 dBd  
Power: 200 Watts  
Type: 5/8 over 1/2 Wave  
Height: 12.75"  
Whip: W195B.100, enclosed coil

## Mounts

Larsen has a full line of permanent and temporary mounts to solve nearly every installation problem. Each mount is manufactured of the highest quality materials, including premium coaxial cable.

**NMOK** . . . . . \$19.99

Motorola-style Roof Mount

Size: 3/4"  
Coax: 17' RG-58A/U  
Conn: PL-259

**NMOTLP** . . . . . \$32.99

Motorola-style Low Profile

Trunk Lip Bracket, Black  
Size: 1.75" x 1.75"  
Coax: 17' RG-58A/U  
Conn: PL-259

**NMOMMR** . . . \$36.99

Motorola-style Round Magnetic Mount

Size: 3.5" Round  
Coax: 12' RG-58A/U  
Conn: PL-259  
Pull Strength: 90 lbs.

**POK** . . . . . \$34.99

SO-239 female type roof mount

Size: 3/4" hole  
Coax: 17' RG-58A/U  
Conn: PL-259

**POMM** . . . . . \$39.99

SO-239 female type magnetic mount

Size: 3.5" x 3" rectangle  
Coax: 17' RG-58A/U  
Conn: PL-259  
Pull Strength: 90 lbs



**NMOKHFUD** . . . \$15.99

NMO style roof mount

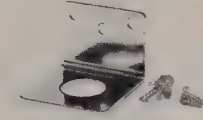
Size: 3/4" hole  
Coax: 17' RG-58A/U  
Dual Shield  
Conn: Not Included



**TMB34 (Chrome)** . . . \$6.99

**TMB34B (Black)** . . . \$9.99

Trunk gutter bracket, 3/4" hole.  
Screws included  
Size: 2" x 2"



## Parts and Accessories

**W490** . . . . . \$10.99

Chrome .100 tapered replacement whip for 144 MHz (49")

**W490B** . . . . . \$14.99

Black .100 tapered replacement whip for 144 MHz (49")

**WKG2/70** . . . . . \$32.99

Black .100 tapered replacement whip with open coil for KG2/70 (approx. 33")

**W2/70B** . . . . . \$32.99

Black .100 tapered replacement whip for NMO2/70B (approx. 31")

**RGSS** . . . . . \$6.99

3 SuperSeal NMO Gaskets

**SPRING** . . . . . \$12.99

Shock Spring

**HP34** . . . . . \$3.99

(5) 3/4" Rubber hole plugs

**KGREINSTALL** . . . . . \$10.99

Reinstall Kit for KGs

**NMOCAPB** . . . . . \$6.99

Black NMO Rain Cap

**LARSEN**  
ANTENNAS

A Pulse Brand  
3611 NE 112th Avenue  
Vancouver, WA 98682  
360-944-7551 / 800-426-4656  
Fax: 800-525-6749  
Email: info@larsen.pulseeng.com  
Web: www.larsen-antennas.com



## Unity Gain

THF . . . \$25.99

### VHF/UHF Trunk Lip Mount Antennas.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U with PL-259 connector

UHT-1 . . . \$17.99

### VHF/UHF Roof/Deck Hole Mount Antenna.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U

UGM . . . \$23.99

### VHF/UHF Magnetic Mount Antenna

Extend the range of handheld or portable radios. Trimmable 17-7 PH stainless steel radiator is cut to ¼ wavelength for low SWR and unity gain from 140 to 500 MHz. Trim chart included. Highly efficient mylar protected magnetic mount attaches conveniently to magnetic compatible surfaces. No drilling! Supplied ready for operation with 10 ft. of mini-coax with BNC connector



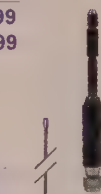
## Collinear

### Series Fed Mobile Antennas

SF-2 144 MHz 3.4 dB . . . \$17.99

SF-220 220 MHz 3.4 dB . . . \$17.99

- Power rating: 100 watts
- 3/8 x 24 thread
- 5/8 wave
- RX-2 144 MHz 3.4 dB . . \$28.99
- RX-220 220 MHz 3.4 dB . . \$28.99
- RX-440 440 MHz 5.0 dB . . \$28.99
- Coil same as above
- 3 oz magnet
- 15 ft RG-58/U coax
- PL-259 connector



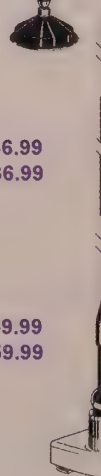
## Collinear High Gain

### Mobile Antenna

CG-144 5.2 dB 6 MHz BW . . . \$36.99

CG-220 5.2 dB 4 MHz BW . . . \$36.99

- Power rating: 200 watts
- 3/8 x24 thread
- 5/8 over ¼ wave
- Collinear design
- CGT-144 5.2 dB 6 MHz BW . . \$59.99
- CGT-220 5.2 dB 4 MHz BW . . \$59.99
- Coil same as above
- Swivel ball for vertical positioning
- Trunk mount base



MKR-2 Radial Kit . . . \$23.99

Used to convert RX, SF & CG series coils to fixed station operation. Mount can accept any 3/8x24 threaded

# VHF and UHF Mobile Antennas

## MX Series NMO Magnetic Mount Antenna

MX-2 144 MHz 3.4 dB . . \$37.99

MX-220 220 MHz 3.4 dB . . \$37.99

MX-440 440 MHz 5.0 dB . . \$49.99

- Power rating: 200 watts
- Chrome top
- NMO style coil
- 10 oz magnet
- 17 ft RG58/U coax & PL-259 connector



MX-2B 144 MHz 3.4 dB . . \$42.99

MX-440B 440 MHz 5.0 dB . . \$49.99

- Same as above but all black coil

## BBG Series NMO Swivel Ball & Spring Antenna

BBG-144 3.4 dB . . \$49.99

BBG-440-5 5.0 dB . . \$49.99

- Power rating: 200 watts
- NMO style coil
- Chrome top, swivel ball and spring

BBGT-144 3.4 dB . . \$56.99

BBGT-440-5 5.0 dB . . \$49.99

- Same coil as above
- Includes Trunk mount
- 17 ft RG58/U coax & PL-259 connector



## Dual Band 2 meter/ 70cm

### Mobile Antennas

Hustler's new Dual Band antennas are designed to perform even in the toughest environments. Base coils are ultrasonically welded to ensure mechanical integrity and durability.

LMC-270 . . . \$34.99

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style coil
- Coil and whip only
- MX-270 . . . \$63.99
- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style magnetic mount
- 17 ft RG58/U coax & PL-259 connector



## LM Series NMO Coils

LMG, LMC AND LMB Antennas are coil & whip only and require an NMO mount.

LMG-144 3.4 dB gain . . \$27.99

LMG-440-5 5.0 dB gain . . \$24.99

- Power rating: 200 watts
- NMO style coil
- Chrome top and bottom
- Contact-silver plated push pin
- LMC-144 3.4 dB gain . . \$25.99
- LMC-440-5 5.0 dB gain . . \$25.99
- Power rating: 200 watts
- NMO style coil
- Black coil with chrome top
- LMB-144 3.4 dB gain . . \$23.99
- LMB-440-5 5.0 dB gain . . \$25.99
- Power rating: 200 watts
- NMO style coil
- Black coil

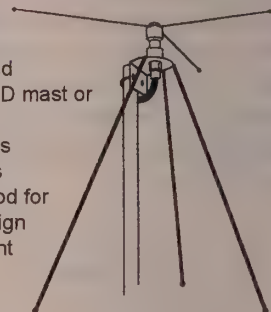


## Scanner Base Station Antenna

Hear more at a greater distance with Hustler's external omnidirectional scanner antennas.

DCX . . . \$25.99

- 40 - 950 MHz
- Vertically polarized
- Mounts to 1 ¼" OD mast or flat surface
- 55" cone elements
- 20" disc elements
- Solid aluminum rod for high strength design
- Hardware & mount included



DCLB . . . \$37.99

- Same as DCX
- 50 ft RG58/U coax with PL-259 on one end and BNC on the other end

## Mobile Scanner Antenna

Hear all of the action in your car. Covers 30-50, 148-174, 430-450, 800-950 MHz

MRMB . . . \$19.99

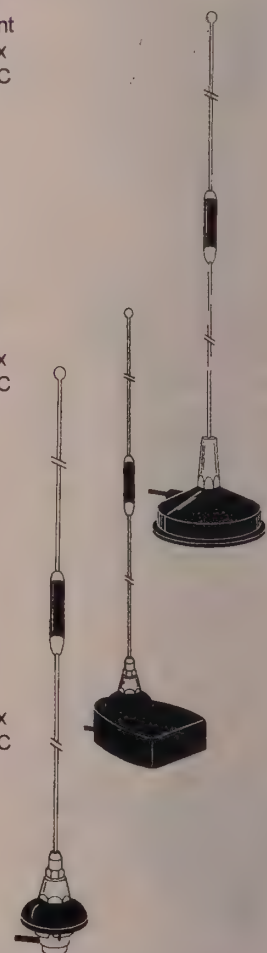
- 3 oz Magnet mount
- 12 ft RG58/U coax
- Available with BNC connector

MOTB . . . \$21.99

- Trunk mount
- 15 ft RG58/U coax
- Available with BNC connector

MORB . . . \$19.99

- ¾" Roof or deck mount
- 12 ft RG58/U coax
- Available with BNC connector



**New-Tronics Antenna Corporation**  
225 Van Story Road  
Mineral Wells, Texas 76067-9563

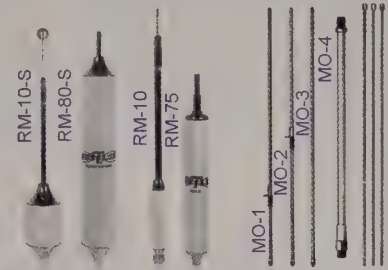
Phone: 940.325.1386  
Toll Free: 877.994.9499  
Fax: 940.325.5077



# Amateur HF Mobile 10,12,15,17,20,30,40,60,75 and 80 Meter

If you are serious about HF mobile operation the **Hustler** HF Mobile System is the obvious choice. **Hustler** manufactures and sells more HF mobile antennas world wide than anyone. No other manufacturer offers the convenience, the flexibility or the pure performance that **Hustler** does. Our HF Mobile System offers a wide variety of components which enable you to customize your installation to fit your present and future needs. A choice of four different support masts provides an installation solution for every vehicle. A selection of interchangeable resonators in high and moderate power levels and varying bandwidths are available. A full complement of accessories such as springs, a multiband adapter and a quick disconnect device complete the system. Experience the satisfaction that comes with owning the best in the world — the **Hustler** HF Mobile System.

	Model	Band	Power SSB	BW @ 2:1 SWR	Weight lbs	Price
RM-10	Standard	10 m	400 W	150-250 KHz	0.41	\$18.99
RM-11	Standard	11 m	400 W	150-250 KHz	0.41	\$18.99
RM-12	Standard	12 m	400 W	90-120 KHz	0.41	\$18.99
RM-15	Standard	15 m	400 W	100-150 KHz	0.42	\$18.99
RM-17	Standard	17 m	400 W	120-150 KHz	0.44	\$25.99
RM-20	Standard	20 m	400 W	80-100 KHz	0.46	\$25.99
RM-30	Standard	30 m	400 W	50-60 KHz	0.84	\$28.99
RM-40	Standard	40 m	400 W	40-50 KHz	0.84	\$28.99
RM-60	Standard	60 m	400 W	40-50 KHz	0.84	\$30.99
RM-75	Standard	75 m	400 W	25-30 KHz	1.05	\$30.99
RM-80	Standard	80 m	400 W	25-30 KHz	1.05	\$30.99
RM-10S	Super	10 m	1 kW	250-400 KHz	1.00	\$27.99
RM-11S	Super	11 m	1 kW	250-400 KHz	1.00	\$27.99
RM-15S	Super	15 m	1 kW	150-200 KHz	1.20	\$28.99
RM-20S	Super	20 m	1 kW	100-150 KHz	1.25	\$32.99
RM-40S	Super	40 m	1 kW	50-80 KHz	1.80	\$41.99
RM-75S	Super	75 m	1 kW	50-60 KHz	2.10	\$57.99
RM-80S	Super	80 m	1 kW	50-60 KHz	2.10	\$57.99



## Mobile HF Antennas Hustler Masts

### MO-1 .... \$36.99

Mobile mast 54" length, for bumper, fender or hitch mounting. Folds over at 15" above base. Made of highest quality heat treated Stainless steel and aluminum parts. 3/8" x 24 threaded

### MO-2 .... \$36.99

Mobile mast, 54" length, for bumper, fender or hitch mounting. Folds over at 27" above base. 3/8" X 24 threaded

### MO-3 .... \$27.99

Mobile mast, 54" length, for bumper, fender or hitch mounting. solid aluminum with white vinyl coating. Does not fold over. 3/8" X 24 threaded

### MO-4 .... \$22.99

Mobile mast 22" length, trunk or deck mounting. Three retuning tip rods included. 3/8" X 24 threaded

## Quick Disconnect

### QD-2 .... \$24.99

100% Stainless Steel. Remove antenna from mount in seconds with push and twist release. Every part including the compression spring is manufactured from the best available 100% stainless steel. Special design of enclosed compression and lock assembly assures freedom against ice and dirt jam up. Accommodates small, medium and large mobile antennas. Equipped with 3/8" x 24 threads, female on one end and male on the other.

### VP-1 .... \$7.99

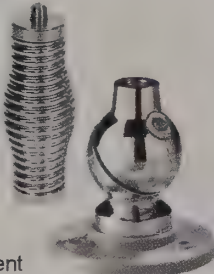
Automatic bandswitching using any three Hustler HF resonators. Adapts any Hustler HF mast to tri-band operation. No additional tuning necessary.



## Professional Chrome Series

### C-32 .... \$18.99

Chrome plated 1 1/2" ball mount. Furnished complete with rubber pad, steel backup plate, all mounting hardware and hex key.



### C-30 .... \$14.99

Chrome plated 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas

### C-29 .... \$21.99

Stainless steel 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas



## Resonator Spring

### RSS-2 .... \$13.99

Finest quality stainless steel spring for use between resonator and Hustler antenna mast. This 3" spring absorbs shock when the antenna strikes overhanging obstructions. Supplied ready for easy installation with 3/8" x 24 threads, female on one end, and male on the other. Copper braided center conductor to prevent detuning.



## Magnet Mount .... \$22.99

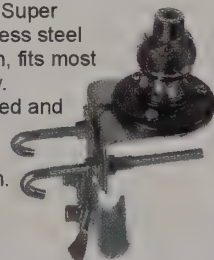
### MBM "Super" Magnet

- 95 lbs. Pull strength
- Powerful 5 inch diameter magnet
- 8 pole magnet
- 16 feet RG 58/U coax with PL-259 connector.
- 3/8" x 24 female threads
- Recommended for antennas up to 48".



## Bumper Mount BM-1 .... \$25.99

Design is rugged for supporting Hustler antennas with the Standard or Super resonators. Heavy stainless steel strap, stronger than chain, fits most bumpers inconspicuously. Assembly is easily installed and held rigid by "J" bolts at the top and a bumper strap clamp at the bottom.



## Professional Stainless Steel Series

### SSM-1 .... \$52.99

Heavy-duty mount with 4" stainless steel spring with copper braided center conductor to prevent detuning. 180 degree adjustable 2" diameter stainless steel ball. Accepts 3/8" x 24 antennas

### SSM-2 .... \$32.99

Heavy-duty 2" diameter stainless steel ball mount. 180 degree adjustable. Accepts 3/8" x 24 antennas.

### SSM-3 .... \$29.99

Heavy-duty stainless steel 4" spring with 3/8" x 24 coupling stud. Copper braided center conductor to prevent detuning.



## HLM .... \$25.99

Trunk lip mount designed for hatch and slanted back vehicles. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



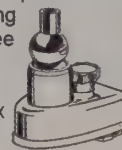
## TLM .... \$25.99

Trunk lip mount, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



## HOT .... \$26.99

Trunk lip mount with easy on/off by using thumb knob. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/Ucoax with PL-259 connector.



## RVM .... \$23.99

Recreational vehicle mount with heavy duty bracket. Easy antenna removal or lay down with thumb knob. 1" ball that accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.







### Model G3-144 . . . \$74.99

The G3-144 is the newest addition to the Hustler Base Station line. Designed with the cost conscious amateur in mind, this small, inexpensive antenna delivers more gain than other antennas in its price range. Ideal for a home or emergency command post.

#### ELECTRICAL

- Frequency Range: 144 - 148 MHz.
- Gain: 3 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

#### MECHANICAL

- Termination: SO-239
- Length: 7' 5

- Weight: 2.0 lbs.
- Wind Survival: 100 mph.
- Wind Area: 0.5 ft.<sup>2</sup>
- Mounting: 1 to 1 3/4

- Construction: High strength



Model  
G3-144

### Model G6-270R . . . \$199.99 Dual band 2 Meter & 440 MHz

#### ELECTRICAL

- Frequency range: 144 - 148 MHz, 435 - 455 MHz.
- Gain: 6 dB
- Maximum power: 100 Watts
- Bandwidth: 4 MHz - 2 Meters
- 10 MHz - 440 Meters
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

#### MECHANICAL

- Termination: N female
- Length: 7' 6

- Weight: 5.3 lbs.
- Wind Survival: 100 mph
- Wind Area: 1.4 ft.<sup>2</sup>
- Mounting: Up to 1 3/4

- Construction: one piece radome



G6-270R

### Model G6-440 . . . \$179.99

#### ELECTRICAL

- Frequency range: 440 - 450 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 10 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

#### MECHANICAL

- Termination: Type N female
- Length: 7' 3

- Weight: 5.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.<sup>2</sup>
- Mounting: Up to 1 3/4



G6-440

### VHF and UHF Omni Directional Fixed Station Vertical Antennas

### Model G7-144 . . . \$199.99

#### Two Meter

The G7-144 is totally self supporting and is easily assembled. When disassembled the longest part is approximately 4' which makes it easy to handle and ship via UPS.

#### ELECTRICAL

- Frequency Range: 144 - 148 MHz.
- Gain: 7 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms
- Termination: N female
- Length: 15' 4

- Weight: 10.0 lbs.
- Wind survival: 100 mph
- Wind Area: 0.96 ft.<sup>2</sup>
- Mounting: Up to 1 3/4

- Construction: High strength fiberglass & aluminum.



G7-144

### Model G6-144B . . . \$139.99 Two Meter

#### ELECTRICAL

- Frequency range: 143 - 149 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 6 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

#### MECHANICAL

- Termination: SO-239
- Length: 9' 9

- Weight: 6.8 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.<sup>2</sup>
- Mounting: Up to 1 3/4



G6-144B

### Model G7-220 . . . \$169.99

#### ELECTRICAL

- Frequency range: 220 - 225 MHz.
- Gain: 7 dB
- Maximum power: 1 KW FM
- Bandwidth: 5 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

#### MECHANICAL

- Termination: Type N female
- Length: 10' 2

- Weight: 7.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 0.96 ft.<sup>2</sup>
- Mounting: Up to 1 3/4



G7-220

### Fixed Station Multi-Band HF Vertical Antennas

Our exclusive trap design offers the lowest loss possible. A special extrusion process allows us to produce trap covers to an otherwise unattainable close tolerance, assuring accurate and permanent resonance. Our highly accurate traps provide top signal reports and consistent contacts. Accurate tuning is made possible by the wide range of tuning flexibility designed into our verticals. Not only can you use the normal adjustable tubing to change resonance, but the traps themselves can be field tuned for an additional 2 MHz. shift. This flexibility will enable you to achieve a good S.W.R. even if your installation is not ideal.

- Broadbanded - low VSWR at band edges
- Power capability - full legal limit on SSB or CW
- Solid one inch fiberglass trap forms for optimum electrical and mechanical stability
- Heavy wall, high strength aluminum tubing, heavy duty aluminum mounting bracket and low loss, high strength insulators.
- Stainless steel clamps and hardware.
- Easy assembly and tuning.
- Single line feed with any length of 50 ohm coax.
- Use as ground mount with or without radials, or elevated mount with radials.
- All of the BTVs can be mounted in a piece of PVC and disguised as a flagpole in deed restricted neighborhoods.

### Model 6-BTV . . . \$199.99

Bands 10-15-20-30-40 & 75 or 80 meters  
Length/weight 24 ft. / 16.5 lbs.  
Mounting Vertical support up to 1.75 O.D.

Wind Load 29 lbs. @ 70 mph.  
Power capability Full legal limit SSB/CW  
VSWR at resonance 1.15 to 1 or better  
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

### Model 5-BTV . . . \$179.99

Bands 10-15-20-40 & 75 or 80 meters  
Length/weight 25 ft. 1 in. / 16.5 lbs.  
Mounting Vertical support up to 1.75 O.D.

Wind Load 29 lbs. @ 70 mph.  
Power capability Full legal limit SSB/CW  
VSWR at resonance 1.15 to 1 or better  
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

### Model 4-BTV . . . \$149.99

Bands 10-15-20-40 meters  
Length/weight 21 ft. 5 in. / 15 lbs.  
Mounting Vertical support up to 1.75 O.D.

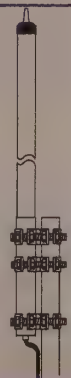
Wind Load 28 lbs. @ 70 mph.  
Power capability Full legal limit SSB/CW  
VSWR at resonance 1.15 to 1 or better

### Model 30-MTK . . . \$47.99

30 meter add on kit for the 4 and 5 BTV

### Spirit Series - RepeaterAntenna

Hustler's omnidirectional, collinear design repeater antennas are enclosed in a rugged fiberglass radome that will help minimize pattern variations due to high winds or extreme conditions. Great for your club or tower use. We offer these antennas in 144, 220, 440, 900 MHz and 1.2 Ghz. The gain will be unity, 3, 6, 9, or 12 dB depending on the frequency. Custom frequencies available, call for a quote.



**New-Tronics Antenna Corporation**  
225 Van Story Road  
Mineral Wells, Texas 76067-9563

Phone: 940.325.1386  
Toll Free: 877.994.9499  
Fax: 940.325.5077

[www.new-tronics.com](http://www.new-tronics.com)





**CUSHCRAFT**  
CORPORATION

**Laird**  
TECHNOLOGIES

HF/VHF/UHF...

the right antennas for every ham since 1950

AMATEUR RADIO ANTENNAS



#### DIPOLE ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ)	GAIN (dBi)	LENGTH (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)	PRICE (\$)
<b>SINGLE BAND</b>								
D-40	40M	UNITY	42.25	1500	1.5-2	1.3	12	369.99
<b>MULTIBAND</b>								
D-4	40/20/15/10M	UNITY	35.8	1500	1.5-2	1.3	13	419.99
D-3	20/15/10M	UNITY	25.8	1500	1.5-2	0.9	9	299.99
D-3W	30/17/12M	UNITY	34	1500	1.5-2	0.9	11	299.99

For detailed information you can download Cushcraft instruction manuals from  
<http://www.cushcraft.com/amateur/support/instruction-manuals.htm>



#### VERTICAL ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ)	GAIN (dBi)	HEIGHT (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)	PRICE (\$)
<b>SINGLE BAND</b>								
MA-160V	160M	0	30-36	1500	1.5	>1	12	249.99
AR-10	10M	3	17.6	1000	1-1.25	1.68	4	99.99
AR-6	6M	3	10.1	1000	1-1.25	0.37	2.5	99.99
ARX-2B	135-160	7	14	1000	1-1.25	0.5	6	84.99
ARX-2	135-160	5	9.3	1000	1-1.25	0.4	4	69.99
AR-2	135-160	3	3.9	1000	1-1.25	0.21	1.5	59.99
ARX-220B	222-225	7	9.3	500	1-1.25	0.3	5	84.99
ARX-450B	435-450	7	4.9	500	0.75-0.88	0.2	1	84.99
AR-450	440-460	3	1.4	500	0.75-0.88	0.1	1	45.99
<b>MULTIBAND</b>								
MA-8040V	80/40M	0/2	23-27	1500	1.5	>1	9	259.99
R-8	40/30/20/17/15/12/10/6M	3	28.5	1500	2	2.5	23	539.99
R-6000	20/17/15/12/10/6M	3	19	1500	1.5-1.75	1.5	12.5	369.99
MA-6VA	20/17/15/12/10/6M	1-2	14.7	250	1.25-2	0.82	6.9	319.99
MA-5VA	20/17/15/12/10M	1-2	14.7	250	1.25-2	0.82	6.5	259.99
AR-270B	2M/430-450	5.5/7.5	7.7	250	1.25-2	0.47	2.4	124.99
AR-270	2M/430-450	3/5.5	3.75	250	1.25-2	0.27	2	114.99

High Performance in all applications / Made in the U.S.A.

#### BEAM ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ)	ELEMENTS	GAIN (dBi)	F/B RATIO (dB)	BOOM (FT)	LONGEST ELE (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)	PRICE (\$)
<b>SINGLE BAND</b>											
XM-240	40M	2	6	20-25	22	43	1500	2.5	5.5	55	829.99
TEN-3	10M	3	8	25	8	18	2000	1.5-2	2	10	249.99
A50-6S	6M	6	11.6	26	20	9.9	1000	1.5-2	4.46	18	349.99
A50-5S	6M	5	10.5	24	12	10.25	1000	1.5-2	2.9	11	219.99
A50-3S	6M	3	8	20	6	9.75	1000	1.5-2	1.8	7	139.99
26B2	2M	26	18.8	26	15	3.3	1500	1.5-2	4.84	21.5	499.99
17B2	144-145	17	18	26	31	3.4	1500	1.5-2	3.9	15.75	299.99
13B2	2M	13	15.8	26	15	3.3	1500	1.5-2	1.8	6.7	199.99
A148-20T	2M	10H/10V	13	24	11	3.4	1000	1.25-2	0.39	7	174.99
A148-10S	2M	10	13.2	24	12	3.4	1000	1.25-2	1.21	6	124.99
124WB	2M	4	10.2	19	4	3.3	1500	1.25-2	0.34	3	109.99
A148-3S	2M	3	7.8	18	2.8	3.4	1000	1.25-2	0.27	1.5	77.99
224WB	222-225	4	10.2	20	3	2.2	1500	1.25-2	0.23	1.7	96.99
719B	430-450	19	15.5	25	13.5	13.75	2000	1.25-2	1.2	5.6	189.99
A430-11S	430-440	11	13.2	20	4.6	1.16	350	1.25-1.5	0.42	4	99.99
A449-11S	440-450	11	13.2	20	4.4	1.08	350	1.25-1.5	0.39	4	99.99
A449-6S	440-450	6	10.5	18	2.9	1.08	350	1.25-2	0.3	3	73.99
<b>MULTIBAND</b>											
ASL-2010	20/17/15/12/10M	8	6.4	15-20	18	38	1500	1.5-2	10.1	55	899.99
MA-5B	20/17/15/12/10M	2/1/2/1/2	3.6/1/4.8/1/5.5	22/0/12/0/10	7.3	17.1	1200	1.5	3.2	27	399.99
X-7	20/15/10M	7	12.5	30	18	37	2000	2.5	7.9	60	799.99
A-4S	20/15/10M	4	8.9	25	18	32	2000	1.25-2	5.5	37	649.99
A-3S	20/15/10M	3	8	25	14	27.75	2000	1.25-2	4.4	27	549.99
A3-WS	17/12M	3	8	25	14	25	2000	1.25-2	4.1	23	429.99
A6270-13S	6M/2M/430-450	3/5/5	8/10/10	20/20/18	7.3	9.75	1000/350/350	1.25-2	2.52	9.5	249.99
A270-10S	2M/440-450	5/5	10/10	20/18	6.2	3.4	350	1.25-2	0.73	1.8	129.99
A270-6S	2M/430-450	3/3	7.8/7.8	20/8	2.8	3.4	350	1.25-2	0.3	1.7	99.99

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Audio / Video & Tools

AES Information



# HF MOBILE ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ OR METERS)	BANDWIDTH @ 2:1 SWR	HEIGHT (INCHES)	WATTS (PEP SSB)	MOUNT	WEIGHT (OZS)	PRICE (\$)
COMET - SEE PAGE 73 FOR MORE INFO							
UHV-6	<sup>(1)</sup> 80/ <sup>(1)</sup> 20/ <sup>(1)</sup> 17 & 40/15/10/6/2M/70CM	-	44 (min) / 78 (max)	120(HF)/100	PL-259	14-19	159.99
HIGH SIERRA - SEE PAGE 94 FOR MORE INFO							
SIDEKICK	3.7-54	-	51	200	3/8" X 24	40	395.00
SIDEKICK IBOX	SAME AS THE SIDEKICK BUT INCLUDES I-BOX CONTROLLER FOR ICOM IC-703/706/718/736/746/756/765 & 775						445.00
PLATINUMPACK	3.5-60	-	36-126	1000	3/8" X 24	96	545.00
HUSTLER - RESONATORS ONLY - SEE PAGE 85 FOR MORE INFO							
RM-80	80M	25-30 KHz	60 + MAST <sup>(2)</sup>	400	3/8" X 24	16.8	30.99
RM-80S	80M	50-60 KHz	62 + MAST <sup>(2)</sup>	1000	3/8" X 24	33.6	57.99
RM-75	75M	25-30 KHz	52 + MAST <sup>(2)</sup>	400	3/8" X 24	16.8	30.99
RM-75S	75M	50-60 KHz	54 + MAST <sup>(2)</sup>	1000	3/8" X 24	33.6	57.99
RM-60	60M	40-50 KHz	58 + MAST <sup>(2)</sup>	400	3/8" X 24	13.44	30.99
RM-40	40M	40-50 KHz	49 + MAST <sup>(2)</sup>	400	3/8" X 24	13.44	28.99
RM-40S	40M	50-80 KHz	49 + MAST <sup>(2)</sup>	1000	3/8" X 24	28.8	41.99
RM-30	30M	50-60 KHz	31 + MAST <sup>(2)</sup>	400	3/8" X 24	13.44	28.99
RM-20	20M	80-100 KHz	31 + MAST <sup>(2)</sup>	400	3/8" X 24	7.36	25.99
RM-20S	20M	100-150 KHz	31 + MAST <sup>(2)</sup>	1000	3/8" X 24	20	32.99
RM-17	17M	120-150 KHz	34 + MAST <sup>(2)</sup>	400	3/8" X 24	7.04	25.99
RM-15	15M	100-150 KHz	33 + MAST <sup>(2)</sup>	400	3/8" X 24	6.72	18.99
RM-15S	15M	150-200 KHz	29 + MAST <sup>(2)</sup>	1000	3/8" X 24	19.2	28.99
RM-12	12M	90-120 KHz	30 + MAST <sup>(2)</sup>	400	3/8" X 24	6.56	18.99
RM-11	11M (CB)	150-250 KHz	24 + MAST <sup>(2)</sup>	400	3/8" X 24	6.56	18.99
RM-11S	11M (CB)	250-400 KHz	30 + MAST <sup>(2)</sup>	1000	3/8" X 24	16	27.99
RM-10	10M	150-250 KHz	23 + MAST <sup>(2)</sup>	400	3/8" X 24	6.56	18.99
RM-10S	10M	250-400 KHz	25 + MAST <sup>(2)</sup>	1000	3/8" X 24	16	27.99
ICOM - SEE PAGE 106 FOR MORE INFO							
AH-2B	40-6M (REQUIRES ICOM AH-4) <sup>(3)</sup>	-	98.4	120	INCLUDED	~160	389.99
LAKEVIEW - SEE PAGE 94 FOR MORE INFO							
9175	75M (3.75 - 4 MHz)	10 KHz	94	600	3/8" X 24	16	39.99
9160	60M	60 KHz	94	600	3/8" X 24	12.8	39.99
9140	40M	60 KHz	94	600	3/8" X 24	11.2	39.99
9130	30M	Entire Band (50 KHz)	94	600	3/8" X 24	10.4	39.99
9120	20M	175 KHz	94	600	3/8" X 24	9.6	39.99
9117	17M	Entire Band (100 KHz)	94	600	3/8" X 24	9.6	39.99
9115	15M	350 KHz	94	600	3/8" X 24	9.6	39.99
9112	12M	Entire Band (100 KHz)	94	600	3/8" X 24	9.6	39.99
9110	10M	1 MHz	94	600	3/8" X 24	9.6	39.99
LARSEN - SEE PAGE 83 FOR MORE INFO							
NMO-27C	10/11M (CB)	-	53	150	NMO	8	35.99
NMO-27B	10/11M (CB)	-	53	150	NMO	8	39.99
MALDOL - SEE PAGE 73 FOR MORE INFO							
HMC-6S	<sup>(4)</sup> 40/20/15/10/6/2M/70CM	-	66	120	PL-259	28	159.99
MFJ - SEE PAGE 94 FOR MORE INFO							
1664	80-6M	-	2' + 4.5' or 10' WHIP	200	3/8" X 24	44.8	169.99
1661	40-6M	-	1' + 4.5' or 10' WHIP	200	3/8" X 24	32.8	139.99
1624	40-6M	-	66	300	3/8" X 24	31.2	89.99
OUTBACKER - SEE PAGE 95 FOR MORE INFO							
STEALTHPLUS	80/75/40/30/20/17/15/12/10/6/2M	-	36	100	3/8" X 24	23.2	319.99
PERTHPLUS	80/75/40/30/20/17/15/12/10/6/2M	-	72	100	3/8" X 24	24	329.99
PERTH	80/75/40/30/20/17/15/12/10M	-	83	150	3/8" X 24	25.6	329.99
OBM (MARINE)	75/40/20/17/10M + ITU Marine	-	67	300	3/8" X 24	37.6	399.99
OB8	80/75/40/30/20/17/15/12/10M	-	67	300	3/8" X 24	29.6	299.99
OBS8	80/75/40/30/20/17/15/12/10M	-	67 (2 X 33.5")	300	3/8" X 24	28.8	299.99
OB8TRI	80/75/40/30/20/17/15/12/10M	-	67 (3 X 22.3")	300	3/8" X 24	31.2	339.99
OB8HP	80/75/40/30/20/17/15/12/10M	-	67	500	3/8" X 24	34.4	329.99
SGC							
5528 (SG-307)	160-6M (REQUIRES SGC SG-231) <sup>(3)</sup>	-	84	100	INCLUDED	~80	390.99
YAESU - SEE PAGE 94 FOR MORE INFO							
YA-007FG	80-10M (REQUIRES YAESU FC-40) <sup>(3)</sup>	-	80	100	INCLUDED	~90	169.99
ATAS-120	40/20/15/10/6/2M/70CM	-	63	120	PL-259	31.68	299.99
ATAS-25	40/20/15/10/6/2M/70CM	-	84.6 MAX	100(HF) / 50	SO-239 <sup>(5)</sup>	32.8	249.99

(1) Requires optional coils to operate on those bands: L-3.5 for 80/75M, L-14 for 20M, L-18 for 17M

(2) Requires a mast sold separately to complete an antenna: MO-1 is 54" length folds over at 15" above base / MO-2 is 54" and folds over at 27" MO-3 is 54" but does not fold over / MO-4 is 22" and has three retuning tip rods included / All masts use 3/8" X 24 thread

(3) Optional tuner or equivalent is required

(4) Requires optional HMC-7C coil to operate on the 40M band

(5) Recommended mount for portable use is a camera-type tripod that is not supplied

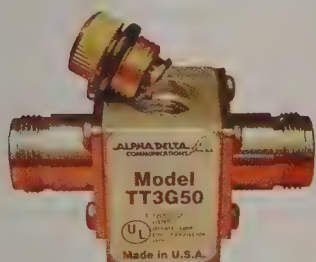


## Effective Atmospheric Surge Voltage Protection

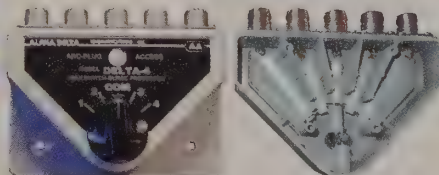
**D**angerous static charges measuring 1000s of volts can be developed from local thunderstorms, high wind driven snow or sand; so potent they can actually puncture the dielectric of coaxial cable. Solid-state transceivers and other equipment in your ham shack are very vulnerable to these high-voltage charges so you should take every precaution to protect your equipment and shack from possible serious damage ... and ALPHA DELTA has the answer!

Special Arc-Plugs are used in ALPHA DELTA's Coax Switches, Surge Protectors and DELTA-C Center Insulator which "bleed off" slow rising static electricity charges from the feed line, routing them harmlessly to ground. This is far more effective than DC grounded baluns or chokes. But, even as effective as these devices are, you still need to do a good job of proper grounding as outlined in the ARRL Handbook, etc.

### Lightning Surge/EMI Protectors



### Lightning Surge Protected Coaxial Switches



- High quality custom design featuring a rugged cast aluminum housing and durable powder coat finish.
- Uses constant impedance micro-strip cavities that provide very low-loss and high isolation through the UHF frequencies
- Precision machined switch shaft and rotation mechanism with solid positive detent that snaps positively into each position.
- An easily replaceable Alpha Delta Arc-Plug™ Cartridge provides continuous surge protection.
- Automatically grounds unused antennas to reduce antenna interaction, noise and the effects of lightning and static charges.
- Rated for Full Legal power.

#### Models:

**DELTA-2B** – 2-position, with SO-239 connectors and rated for operation up to 500 MHz ..... **\$59.99**

**DELTA-2B/N** – 2-position, with N-type connectors, rated for operation up to 1.3 GHz ..... **\$75.99**

**DELTA-4B** – 4-position, with SO-239 connectors, rated for operation up to 500 MHz ..... **\$89.99**

**DELTA-4B/N** – 4-position, with N-type connectors, rated for operation up to 1.3 GHz ..... **\$99.99**

### Antenna Insulator Kit with Surge Protection



- DELTA-C** – Includes a center insulator and two end insulators. The best for dipoles and wire antennas using either coaxial cable or balanced feed line. Highest quality and rugged – made from an virtually unbreakable UV/RF resistant material. Stainless steel hardware is used in the center insulator, and all connections are hard soldered. Handles full legal power. An easily replaceable built-in Arc-Plug® in the center insulator provides protection from the effects of lightning and static charges ..... **\$29.99**
- SEP** – Replacement Arc-Plug® cartridge . **\$15.99**
- DELTA-CIN** – End insulator only ..... each **\$1.99**

## Limited Space Slopers



- Proven 1/4-wave sloper DX Performance.
- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, handles Full Legal Power.
- Factory assembled using insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Direct 50 ohm coaxial feed, no tuner required. Go to Alpha Delta's website for sloper installation.

**DX-A** – A top performing 1/4-wave Twin Sloper 160, 80 and 40 meter DX antenna. Combines the DX firepower of the 1/4-wave sloper with the wide bandwidth of a 1/2-wave dipole. Installs like an inverted V. Legs are 67 ft. and 55 ft. long ..... **\$100.99**

**DX-B** – A single wire high performance 1/4-wave DX Sloper with for 160, 80, 40 and 30 meters. Installs like 1/2 of an inverted V. The limited space installation requires only 60 ft. of space for amazing DX performance with the feed-end at 35 ft. and the low end only 8 ft. above the ground ..... **\$110.99**

## Shortened Multibanders



- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, rated for Full Power.
- Direct 50 ohm feed, no antenna tuner is required except for extended frequency coverage.
- Fully assembled with insulated #12 copper wire, stainless hardware and 50 ft. of nylon support rope.
- Includes the DELTA-C static protected center insulator and DELTA-CIN end insulators.
- Installs horizontally as an inverted V.

**DX-CC** – 80-40-20-15-10M, 82 ft. long . **\$160.99**

**DX-DD** – 80/40M, 82 ft. long ..... **\$130.99**

**DX-EE** – 40-20-15-10M plus 30-17-12M using a wide range antenna tuner, 40 ft. long ..... **\$140.99**

**DX-LB** – 160-80-40M, 100 ft. long. Typical bandwidth for 2:1 VSWR: 160M (20 kHz), 80M (40 kHz), 40M (300 kHz). Capable of full band coverage when using a wide range antenna tuner, 100 ft. **\$160.99**

**DX-LB PLUS** – Same as DX-LB above, but adds 20-10M with parallel wires, 100 ft. .... **\$190.99**

## Full-Size Monoband Dipoles



- 50 ohm coax feed, no traps, handles full power
- Installs horizontally or as an Inverted V
- Rugged, full-size performance
- Fully assembled with #12 insulated copper wire, DELTA-C static protected center insulator, DELTA-CIN end insulators and includes 50 ft. of nylon support rope.

**DX-80** – 75/80 meters, 134 ft. long ..... **\$70.99**

**DX-40** – 40 meters, 67 ft. long ..... **\$70.99**

**DX-20** – 20 meters, 34 ft. long ..... **\$70.99**

**UL LISTED** – Certified protection for your equipment from the effects of lightning and static charges. Much more effective than low-cost air-gap types.

The heart of this protector is an easily replaceable Arc-Plug™ – two electrodes hermetically sealed in a gas filled ceramic cylinder. Acting like a voltage dependent switch, the Arc-Plug™ can repeatedly carry large currents to ground for brief periods.

If you need to run control voltages through the coax, the impedance compensated thru-line cavity design allows it to pass thru instead of having to "wire around" as with some other DC-blocked designs.

All models are completely weather proofed by the use of O-ring seals and all hardware is stainless steel.

**Wide Frequency Range:** DC thru 3 GHz, much wider than narrow band DC blocked or stub designs.

**Low Insertion Loss:** 0.1dB @ 1 GHz, 0.2dB @ 2 GHz, and only 0.5dB @ 3GHz, typical.

#### Models:

**ATT-3G50**  
0-3000 MHz; 200W; N Female ..... **\$59.99**

**ATT-3G50-HP**  
0-3000 MHz; 2000W; N Female ..... **\$59.99**

**ATT-3G50U**  
0-500 MHz; 200W; UHF (SO-239) ..... **\$49.99**

**ATT-3G50U-HP**  
0-500 MHz; 2000W; UHF (SO-239) ..... **\$49.99**

#### Replacement Arc-Plug Cartridges

**ATT/3G50** for ATT3G50 or ATT3G50U.. **\$14.99**

**ATT-HP/3G50HP** for ATT3G50-HP and ATT3G50U-HP ..... **\$14.99**

#### Important Notice:

The Defense Logistics Agency (DLA) has assigned a National Stock Number (NSN) to the TT3G50 Coax Surge Protector and 3G50 ARC-PLUG™ Cartridge for use in all Military and NATO applications Worldwide.

[www.alphadeltacom.com](http://www.alphadeltacom.com)



## Verticals

# hy-gain

## Triband Beams

**AV-18HT** Hy-Tower 10/15/20/40/80M Vertical - The premier, best performing vertical in the world. Constructed with rugged hot-dipped galvanized steel tower sections. Features automatic band selection using a unique stub decoupling system which effectively isolates various sections of the antenna so that an electrical 1/4 wavelength (or odd multiple) exists on all bands. Includes all stainless steel hardware & tilt-over base. Use a good ground or 1/4-wavelength radials for best performance. **Drop Ship \$949.99**

- Specifications**
- Bands: 10, 15, 20, 40, and 80 Meters
  - Gain: Unity 20, 40, 80; 2 dB on 10/15
  - 80M Bandwidth: 250 kHz @ 2:1 VSWR
  - Power: 1500W PEP
  - Height: 53 feet
  - Weight: 114 pounds
  - Wind Survival: 75 MPH

**AV-18HT-JR** Hy-Tower Jr. - Automatic band selection with a unique stub decoupling system which isolates various sections so that a full-size electrical 1/4 wavelength exists on 40, 20, 15 and 10 meters with cage loading on 80 meters. Requires a good ground system or 1/4-wavelength radials for best performance. It has almost no losses - your ground system determines efficiency. It is automatic bandswitching, fed with 50 ohm coax and has low SWR over an exceptional wide bandwidth with a VSWR <1.2:1 at resonance. High-strength, heavy walled 2 in. aluminum main radiator swaged at the top. Mounts on 1-1/4 in. pipe..... **\$349.99**

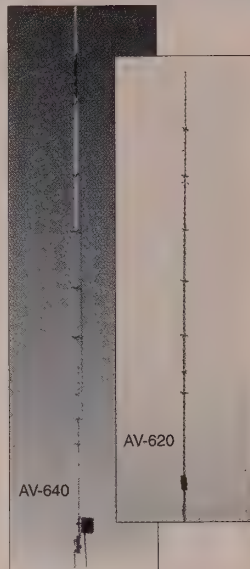
- Specifications:**
- Bands: 10, 15, 20, 40, and 80 Meters
  - Power: 1500W PEP
  - Height: 39 ft.
  - Weight: 25 pounds
  - Survival: Self-supporting up to 40 mph
  - Mast Size: 1-1/4 in.

**AV-14AVQ** 10/15/20/40M Vertical - A self supporting automatic bandswitching vertical that delivers outstanding performance and a very low angle radiation pattern. All stainless steel hardware..... **\$169.99**

- Specifications:**
- Bands: 10, 15, 20, and 40 Meters
  - Power: 1500W PEP
  - Height: 18 ft.
  - Weight: 9 pounds
  - Wind Survival: 80 MPH
  - Mount: 1.5 in - 1.625 in. pipe

**AV-18AVQ II** 10/15/20/40/80M Vertical Similar to AV-14AVQ except includes 80M operation. Height: 18 ft., 12 lbs. **\$229.99**

**DX-88** 10/12/15/17/20/30/40/80M Vertical All bands easily tuned with adjustable capacitors. Height: 25 ft., 18 lbs..... **\$369.99**



**AV-640** 6 to 40 Meter Vertical - Automatic bandswitching with a single coax feed. Uses 1/4-wave stubs on 6, 10, 12, and 17 meters and efficient end loading coil and capacity hats on 15, 20, 30, 40 meters. Instead of typical lossy can traps, the AV-640 resonators are placed in parallel not in series and end loading of the lower HF bands allows efficient operation with a manageable antenna height. An effective counterpoise system replaces conventional ground radials. Mounts easily on decks, roofs, and patios..... **\$399.99**

- Specifications:**
- Bands: 6, 10, 15, 17, 20, 30, and 40 Meters
  - VSWR at resonance (typical): 1.5:1
  - Power Handling: 1500W, key down 2 minutes
  - Vertical Radiation Angle: 17 degrees
  - Horizontal Radiation Angle: 360 degrees
  - Height: 25.5 ft.
  - Weight: 10.5 pounds
  - Wind surface area: 2.5 square feet
  - Wind Survival: 80 mph

**AV-620** 6 to 20 Meter Vertical - No traps, no coils, and uses an effective counterpoise that replaces traditional radials. End fed design using a broadband matching unit with automatic bandswitching and single coax cable feed. Wide VSWR bandwidth, bands are individually tunable..... **\$299.99**

- Specifications:**
- Bands: 6, 10, 15, 17, and 20 Meters
  - VSWR at resonance (typical): 1.5A
  - Power: 1500W, 2 minutes key down
  - Vertical Radiation Angle: 17°
  - Height: 22.5 ft.
  - Weight: 10.5 pounds
  - Wind surface area: 2.4 sq. ft.
  - Wind Survival: 80 MPH

## Multi-Band PATRIOT Vertical Antennas

- No Radials
- No Traps
- No Ground
- No Tuning
- Handles 1500W



**TH-7DX** 7-Element Tri-Band Beam, 10/15/20 Meters - A dual driven 7-element system maintains a VSWR of <2:1 across all bands, including 10 Meters. No compromise on gain performance. A unique combination of trapped and mono band parasitic elements produces a huge front-to-back ratio. Includes a rugged diecast aluminum boom-to-mast clamp, heavy gauge element-to-boom brackets and a BN-86 ferrite balun..... **\$799.99**

- Specifications:**
- Gain: 8.77dBi • F/B: 21dB • Power: 1500W PEP
  - Boom Length: 24 ft. • Longest Element: 31 ft.
  - Turning Radius: 20 ft. • Mast Diameter: 1.5-2.5 in.
  - Surface Area: 9.4 sq. ft. • Wind Load @ 80 mph: 240 lbs • Wind Survival: 100 mph • Weight: 75 lbs

**TH-5MK2** 5-Element Tri-band Beam, 10/15/20 Meters - Broadbanded with outstanding gain. It features five elements on a 19 ft. boom with four active elements on 10, 15 and 20 meters. Separate dielectric H-Q traps on each band provides a maximum front-back ratio. Beta Match tuning, DC grounded. Stainless steel hardware. Includes BN-86 balun..... **\$699.99**

- Specifications:**
- Gain: 8.3dBi • F/B Ratio: 20dB • Power: 1500W PEP
  - Boom Length: 19 ft. • Longest Element: 31.5 ft.
  - Turning Radius: 18.42 ft. • Mast Dia.: 1.5 - 2.5 in.
  - Surface Area: 7.4 sq. ft. • Wind Load @ 80 mph: 190 lbs • Wind Survival: 100 mph. • Weight: 57 lbs.

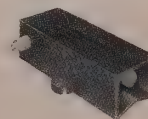
**TH-3MK4** 3-Element Tri-band Beam, 10/15/20 Meters - The most gain for the money in a full-power, full-size durable tri-bander. Impressive gain and front-to-back ratio. Fits on an average lot and the 4-piece boom makes it ideal for DXpeditions. DC grounded, full power Hy-Q traps and rugged boom to mast bracket. Mounts on a standard 2 in. mast. BN-86 balun recommended..... **\$469.99**

- Specifications:**
- Gain: 8.0dBi • F/B Ratio: 25dB • Power: 1500W PEP
  - Boom Length: 14 ft. • Longest Element: 27.42 ft. • Turning Radius: 15.33 ft. • Mast Diameter: 1.9-2.5 in.
  - Wind Area: 4.6 sq. ft. • Wind Load @ 80 mph: 118 lb • Wind Survival: 95 mph • Weight: 35 lbs.

**TH-3JRS** 3 Element Tri-Band Beam, 10/15/20 Meters - The most popular, fits on most lots. Same top performance as the full power TH-3MK4 in a compact 600W PEP design. .... **\$359.99**

- Specifications:**
- Gain: 8.0dBi • F/B Ratio: 25dB • Power: 600W PEP
  - Boom Length: 14.75 ft. • Longest Element: 27.25 ft. • Turning Radius: 14.3 ft. • Mast Dia: 1.25-2.0 in. • Wind Area: 3.35 sq. ft. • Wind Load @ 80 mph: 83 lbs • Wind Survival: 80 mph • Weight: 21 lbs.

**BN-86** Broadband 50Ω Ferrite Balun - Usable from 3 to 30 MHz. Recommended for all HF yagi antennas. It provides improved front-to-back ratio. Comes with clamp to bolt to boom. Protected SO-239 connector..... **\$79.99**



## Single Band HF Beams

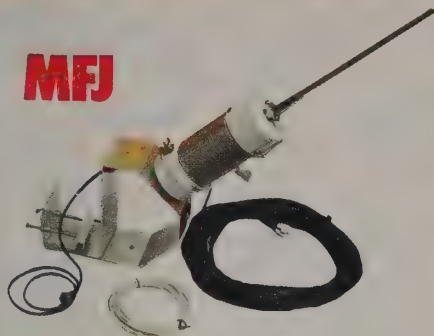
- Stronger, lighter, less surface area & years of High Performance
- Exclusive 50 ohm BetaMatch™ for Direct Coax feed with great match and DC grounding • A BN-86 50Ω Ferrite Balun is recommended for improved front-to-back ratio.

- LJ-103BA** 10 Meters, 3 Elements, 8 ft. Boom, 7.9dBi Gain..... **\$159.99**
- LJ-105CA** 10 Meters, 5 Elements, 24 ft. boom, 10.8dBi Gain..... **289.99**
- LJ-153BA** 15/12 Meters, 3 Elements, 12 ft. boom, 7.9dBi Gain..... **199.99**
- LJ-204BA** 20 or 17 Meters, 4 Elements, 26 ft. Boom, 8.2dBi Gain.. **499.99**





**MFJ**



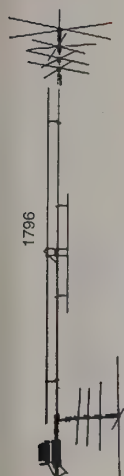
**1622 Apartment Antenna** – Operate 40 thru 10M, 6M and 2M, up to 300W P.E.P. Tuning is accomplished by changing the tap on the highly efficient air-wound coil and adjusting the counterpoise for best SWR. Its universal mount/clamp lets you easily attach it to window frames, balconies and railings. It also works great indoors mounted to a desk, table or bookshelf. The 5.5 ft. radiator collapses to 2.5 ft. for transport or storage. Includes 50 ft. of coaxial cable, RF choke balun, 50 ft. counterpoise wire and safety rope. .... **\$99.99**

**1910 Telescoping Fiberglass Mast** – Great for portable and temporary use – traveling, camping, hotels, hamfests, field day, DXpeditions. Use to construct loops and quads. Pull out each section and twist to lock, strong fiberglass, flexes to resist breaking. Extends to 33 ft. and collapses to 3.8 ft. Bottom section 1.75 in. diameter; 3.3 lbs... **\$79.99**

**Telescoping Whips** – Available in 12 and 10 ft. lengths. Made of 1/2 in. diameter plated brass with a 3/8 x 24 threaded stud. Use as an antenna by itself for 10/12/15M or use it on top of a screwdriver or other base loaded antenna to greatly improve the efficiency. Use two to make a portable dipole.

**1956** 12 ft. extended, 22.5 in. collapsed... **\$34.99**

**1954** 10 ft. extended, 29 in. collapsed... **\$29.99**



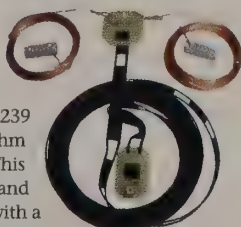
1/2-wave, 6-Band No-radials Vertical 12 ft. tall, Mounts Anywhere, 40-6M

**1796** – Only 12 feet high with a tiny 24 inch foot print. Mount it anywhere – ground level to tower top, apartments, small lots, trailers. Perfect for vacations, field day, DXpeditions, camping. Uses efficient end loading with no lossy traps. And, the entire length is always radiating. Automatic bandswitching, low angle radiation, omni-directional pattern, handles 1500W PEP ..... **\$219.99**

**1778**

**G5RV All-Band Antenna**

A center fed, 102 ft. flat top antenna with a 300Ω twin-lead feeder system and SO-239 connector to accept a 52 ohm coax run from the shack. This unique design provides all band coverage from 80-10 meters with a nominal VSWR. For versatility, using an antenna tuner is recommended with most rigs. Easily installs as a flat top, inverted-V or sloper. It also works well on 160 meters operating as a Marconi with a proper tuner and good RF ground. Handles 1500W ..... **\$44.99**



**ISOTRON**  
BILAL COMPANY

www.isotronantennas.com

**80/40 COMBO**



ISOTRON 80

ISOTRON 40

- Easy, quick, and simple installation.
- Excellent portable operation for emergencies, RV's, field day, motels, Maritime operation.
- Not dependent on a grounding system.
- Tunes and performs without radials.
- Unobtrusive appearance, making a very discreet looking installation.
- Excellent Low Noise reception and transmitting quality performance is not compromised by its compact design.
- Multi-band operation on one feedline with back to back mounting. Any other combination of three bands may be substituted on special order.
- Durable construction, can be used in extreme weather conditions, will not bend in high winds. No motors or mechanical tuning devices to fail.

ISOTRON 160C

**Common Specifications:** 1000W PEP power rating (300W, CW, AM, FM, RTTY) • 50-75Ω coax feed • Omni-directional radiation pattern • Bandwidth shown is within 2:1 SWR but may vary with environment • Stainless steel fasteners • Zinc plated u-bolts • Tempered aluminum components • Polypropylene and PVC insulators • THHN #14 solid copper coils • 85 mph wind rating

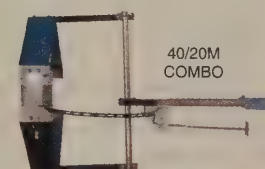
Model	160C	80	40	20	15	10	6
Band	160 meters	80 meters	40 meters	20 meters	15 meters	10 meters	6 meters
Freq. (MHz)	1.8-2.0	3.5-4.0	7.0-7.3	14-14.35	21-21.450	28-30	50-54
HxWxD (in.)	114x16x15	32x16x15	22x16x15	21x8x4	21x1½x4	16x1½x4	16½x2x4
BW	100 kHz	110 kHz	250 kHz	350 kHz	450 kHz	1 MHz	1.25 MHz
Windload (sq. ft.)	1.697	1.37	1.0	0.23	0.23	0.16	0.13
Weight	7 lbs.	6 lbs.	4 lbs	2 lbs	2.0 lbs	1.5 lbs	1.5 lbs.
PRICE	<b>\$173.99</b>	<b>\$109.99</b>	<b>\$88.99</b>	<b>\$78.99</b>	<b>\$78.99</b>	<b>\$78.99</b>	<b>\$78.99</b>



ISOTRON 20



20/15/10M COMBO



40/20M COMBO

**80/40 COMBO** – (Top/left) Same as individual model specs above. Operate 80/40M using one feed line. Dim: 32" h x 16" w x 30" d; 10 lbs..... **\$188.99**

**20/15/10 COMBO** – Same as individual model specifications. Operate 20/15/10M using one feed line. Dim: 4" h x 32" w x 30" d; 10 lbs..... **\$198.99**

**40/20 COMBO** – Offered because the 40 and 20 meter bands were found to be extremely useful for the amateur radio support during the 2005 weather disasters. Improved with a new enhanced coil design that makes tuning easier and more tolerant to higher power. Dim: 22" h x 16" w x 32" d; 6 lbs..... **\$167.99**

**SPECIAL ORDER!** – You can make up your own combination. Substitute 30m for 40m in the 80/40 Combo or 17m for 15m in the 20/15/10 Combo. MARS, CAP and Commercial models available.



Portable 40-10M Antenna



Super High-Q Loop Antenna for Limited Space

**1621** – A complete portable 10 through 40 meter antenna for use in practically any location – apartment, campsite, hotel, even at the beach. Consists of a 54 in. telescoping whip antenna mounted on a sturdy, cabinet which contains a built-in antenna tuner and field strength meter. Handles 200W PEP SSB and includes 50 ft. of RG-58 coax. Just place the unit in any electrically clear location, set the bandswitch, apply power, and tune the capacitor for maximum field strength. The whip is easily removable and collapses to 22 in. for convenient transport. Dim: 6" w x 3" h x 6" d, 3 lbs..... **\$99.99**

**1786** – Made with 1.050 inch diameter round tubing and only 36 inches in diameter, operates 10 to 30 MHz continuously and handles 150W. Mount vertically for low angle DX or horizontally for local work. Automatic tuning remote control box tunes to the desired band and fast/slow tune buttons and built-in two range Cross-Needle SWR/Wattmeter let you quickly tune to an exact frequency. All welded construction, no mechanical joints, polished butterfly capacitor. Operates thru the coax without control cable..... **CLOSEOUT \$419.99**

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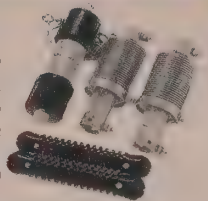


**OVER 50 YEARS** **W2AU W2VS W1NBB W2DU**  
**UNADILLA**  
 www.unadilla.com

## W2AU/W2VS

### 5-BAND ANTENNA KIT

Resonant on 40 and 80 meters. SWR on 10, 15 and 20 meters is typically 2:1 to 4:1; some radios may require a transmatch. 110 ft. long, rated 2 KW PEP. Includes 40 meter traps, W2AU balun and end insulators. Requires 120 ft. of wire, not included. **W2AUW2VSNOWI \$78.99**



## REYCO ANTENNA TRAPS

Add to your dipole for multiband operation on two to seven bands. Add the 40M pair (KW-40) and get "dipole" performance on 40 and 80M. Add five pair and work 10, 15, 20, 40, 80 and 160M with low SWR. Selecting traps: List the bands you want to cover, listing the Highest Frequency band first. You will need a pair of traps for each band except the one with the Lowest Frequency.



<b>KW-10</b> - 10 Meters.....	pair	<b>\$45.99</b>
<b>KW-12</b> - 12 Meters.....	pair	<b>45.99</b>
<b>KW-15</b> - 15 Meters.....	pair	<b>45.99</b>
<b>KW-17</b> - 17 Meters.....	pair	<b>46.99</b>
<b>KW-20</b> - 20 Meters.....	pair	<b>46.99</b>
<b>KW-30</b> - 30 Meters.....	pair	<b>47.99</b>
<b>KW-40</b> - 40 Meters.....	pair	<b>47.99</b>
<b>KW-60</b> - 60 Meters.....	pair	<b>49.99</b>
<b>KW-80CW</b> - 80 Meters CW.....	pair	<b>52.99</b>
<b>KW-80F</b> - 80 Meters Phone.....	pair	<b>52.99</b>

## W2AU FERRITE BALUNS

Replaces the antenna center insulator. Smooth unbalanced to balanced transition ensures proper current distribution. DC grounded for lightning protection, center support hook. Usable from 1.8-40 MHz, rated 2KW PEP SO-239 connector.



<b>W2AU 1:1</b> - 1.1, 1.8-40 MHz ferrite.....	<b>\$26.99</b>
<b>W2AU 4:1</b> - 1.1, 1.8-40 MHz ferrite.....	<b>26.99</b>
<b>W2AU BEAM</b> - 1.1, Beam balun.....	<b>27.99</b>

## W2DU CHOKE BALUNS

High efficiency, transformerless 1:1 baluns. The HF model is the only one available that works on 160 meters! All rated to handle a VSWR up to 5:1 at the legal limit, allowing use with an antenna tune.

<b>W2DU-HF</b> - 1:1, 1.8-30 MHz Choke.....	<b>\$28.99</b>
<b>W2DU-VHF</b> - 1:1, 30-250 MHz Choke.....	<b>28.99</b>
<b>W2DU BEAM</b> - 1:1, 40-10m choke.....	<b>29.99</b>



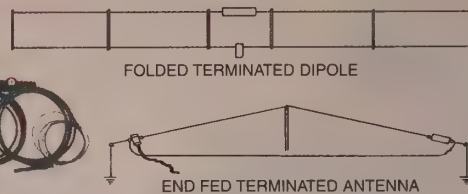
## W2AU ANTENNA INSULATORS

**HA AN-Insulator™** - A strong center dipole insulator with built-in lightning protection. SO-239 connector, 3.5" long x 1.75" diameter..... **\$11.99**

**HE END-Insulator™** - Shatter-proof antenna end insulators. Tough, includes voltage path extenders, positive wire track. Low loss, lightweight and long leakage path. 5.5" long x 1" diameter... pair **\$6.99**

# RadiWarz

## Ready-Made HF Wire Antennas



**G5RV** - Multiband center-fed, uses a special 300Ω twinlead feeder arrangement terminating into an SO-239 connector. Very efficient from 3.5-30 MHz.

<b>G5RV</b> 102 ft. long, 32 ft. tall.....	<b>\$39.99</b>
<b>G5RV JR</b> 51 ft. long, 14 ft. tall.....	<b>28.99</b>
<b>G5RV LITE</b> 68 ft. long, 32 ft. tall.....	<b>48.99</b>
<b>G5RV MAX</b> 204 ft. long, 56 ft. tall.....	<b>75.99</b>

## TUNED DIPOLE

Simple, efficient, and versatile performance. Configure it as an inverted-V, flat top, or "L". A dipole works best in the band that it is designed for, however with an antenna tuner coverage may be expanded. A 1:1 balun isolates and converts the transmission line to balanced for improved operation.

<b>10MC/BALUN</b> 17 ft. 10M dipole w/balun....	<b>\$37.99</b>
<b>12MC/BALUN</b> 19 ft. 12M dipole w/balun.....	<b>37.99</b>
<b>15MC/BALUN</b> 22 ft. 15M dipole w/balun.....	<b>37.99</b>
<b>17MC/BALUN</b> 26 ft. 17M dipole w/balun.....	<b>37.99</b>
<b>20MC/BALUN</b> 32 ft. 20M dipole w/balun.....	<b>39.99</b>
<b>30MC/BALUN</b> 46 ft. 30M dipole w/balun.....	<b>47.99</b>
<b>40MC/BALUN</b> 66 ft. 40M dipole w/balun.....	<b>47.99</b>
<b>80MC/BALUN</b> 130 ft. 80M dipole w/balun....	<b>59.99</b>
<b>160MC/BALUN</b> 250 ft. 160M dipole w/balun....	<b>79.99</b>

## DOUBLE BAZOOKA

An extremely broad banded 1/2-Wave Coaxial Antenna which operates efficiently across an entire ham band with little change in SWR. No balun required, direct 50Ω coaxial feed.

<b>40M-DBZ</b> 70 ft. 40M Double Bazooka.....	<b>\$59.99</b>
<b>75M-DBZ</b> 127 ft. 75M Double Bazooka.....	<b>79.99</b>
<b>160M-DBZ</b> 265 ft. 160M Double Bazooka....	<b>129.99</b>

## DX (OCF) WINDOM

A 1/2-wave horizontal dipole fed off-center by a single-wire non-resonant transmission line. The Windom is off-center fed (OCF) multiband wire antenna with a feedpoint at about 1/3 of the antenna overall length. Includes a 4:1 matching transformer for use with 50Ω coaxial cable.

<b>DX-40</b> 40M, 67 ft. long.....	<b>\$59.99</b>
<b>DX-80</b> 80M, 136 ft. long.....	<b>79.99</b>
<b>DX-160</b> 160M, 246 ft. long.....	<b>132.99</b>

## BALUNS & ISOLATORS

**B-11A** 1:1 Voltage BALUN - Transforms a 50Ω unbalanced load to 50Ω balanced. For dipoles, beams, etc. Trifilar wound air core type. Rated for 1500W PEP, 1.8 to 54 MHz. Body: 6.5" long x 1.75" diameter..... **\$21.99**

**B-11ISO** 1:1 Choke Balun - An isolation transformer that acts to reduce or eliminate stray RF often found on coax. Installs between the antenna balun or matching device/system and the feed line. Effective from 1.8 to 54 MHz, and designed to handle full legal power. Body: 7" long x 2.75" diameter..... **\$29.99**

**B-14VA** 4:1 Voltage Balun - For matching a 200Ω load to a 50Ω load, or a 300Ω load to a 75Ω load. Air core type. Rated for 1500W PEP from 1.8 to 30 MHz. Body: 6.5" long x 1.75" diameter..... **\$25.99**

**B-19TX** 9:1 Isolation/Current Balun - For matching a 450Ω load to a 50Ω load, or 675Ω load to a 75Ω load. Typical uses are for Rhombics, Delta loops, and V-beams, folded tilted terminated dipoles and end-fed Vee antennas. Rated for 1500W PEP from 1.8 to 30 MHz. Body: 6.5" long x 1.75" diameter..... **\$29.99**

**DPH** Weatherproof Antenna Support - For dipoles and wires. No balun or other matching. SO-239 connector. Body: 4" long x 1.75" diameter..... **\$9.99**

## TWINLEAD & LADDER LINE

<b>TL-308100</b> 100 ft. 18 gauge 300Ω Twinlead.....	<b>\$24.99</b>
<b>TL-454100</b> 100 ft. 14 gauge 450Ω Ladder line.....	<b>54.99</b>
<b>TL-458100</b> 100 ft. 18 gauge 450Ω Ladder line.....	<b>24.99</b>

## STRANDED COPPER CLAD STEEL ANTENNA WIRE

<b>WCCS147-100</b> 100 ft. 14 gauge, 7 strand 780 lb strength.....	<b>\$14.99</b>
<b>WCCS147-250</b> 250 ft. 14 gauge, 7 strand, 780 lb strength.....	<b>35.99</b>

## FOLDED TERMINATED DIPOLE

An excellent broadband antenna. Rated at 500W PEP SSB, 200W CW. Pretuned, no measuring or cutting, feeds directly with 50Ω coaxial cable. Mounts horizontally between two supports, or as an inverted 'V' using a single central support mast.

<b>FTD-20</b> 7-30MHz, 20 ft. long.....	<b>\$250.99</b>
<b>FTD-45</b> 5-30 MHz, 45 ft. long.....	<b>279.99</b>
<b>FTD-65</b> 3-30MHz, 65 ft. long.....	<b>279.99</b>
<b>FTD-90</b> 1.8-30MHz, 90 ft. long.....	<b>289.99</b>
<b>FTD-MK</b> 3 pole Mounting Kit.....	<b>45.99</b>

## END FED TERMINATED ANTENNA

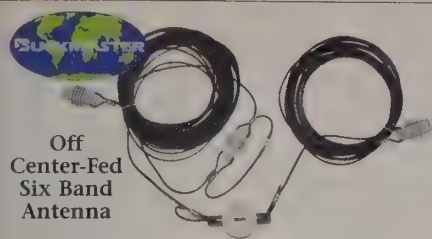
**EFT-110** Another excellent broadband antenna in a different configuration for 1.7-30 MHz. Design is widely used by the military. Series end fed, rated at 500W PEP SSB, 200W CW. Pretuned, no measuring or cutting, 110 ft. long. Direct feed with 50Ω coaxial cable. Mounts horizontally between two supports as a terminated sloper, or as an inverted 'V' using a single central support mast..... **\$279.99**

## Premium Low Loss COAXIAL JUMPERS with PL-259 Connectors & Strain Relief

<b>J213-U1</b> 1.5 ft. RG-213.....	<b>\$14.99</b>
<b>J213-U3</b> 3 ft. RG-213.....	<b>16.99</b>
<b>J213-U6</b> 6 ft. RG-213.....	<b>17.99</b>
<b>J213-U12</b> 12 ft. RG-213.....	<b>24.99</b>
<b>J213-U25</b> 25 ft. RG-213.....	<b>34.99</b>
<b>J213-U50</b> 50 ft. RG-213.....	<b>55.99</b>
<b>J213-U75</b> 75 ft. RG-213.....	<b>73.99</b>
<b>J213-U1X</b> 100 ft. RG-213.....	<b>94.99</b>
<b>J213-U12X</b> 125 ft. RG-213.....	<b>114.99</b>
<b>J213-U15X</b> 150 ft. RG-213.....	<b>136.99</b>
<b>J8X-U1</b> 1.5 ft. RG-8X.....	<b>9.99</b>
<b>J8X-U3</b> 3 ft. RG-8X.....	<b>11.99</b>
<b>J8X-U6</b> 6 ft. RG-8X.....	<b>14.99</b>
<b>J8X-U12</b> 12 ft. RG-8X.....	<b>22.99</b>
<b>J8X-U25</b> 25 ft. RG-8X.....	<b>29.99</b>
<b>J8X-U50</b> 50 ft. RG-8X.....	<b>37.99</b>
<b>J8X-U75</b> 75 ft. RG-8X.....	<b>49.99</b>
<b>J8X-U1X</b> 100 ft. RG-8X.....	<b>63.99</b>



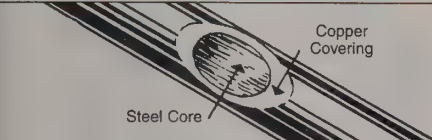




**Off Center-Fed Six Band Antenna**

**OCF** - Covers 75/80, 40, 20, 17, 12 & 10 meters all without the use of an antenna tuner. The rugged broadband design features an integral 6:1 balun and flexible, 65 strand 12 ga. PVC coated wire. The special balun is permanently sealed from the weather, and is internally crimped and soldered to a silver/Teflon® SO-239 connector; a stainless eyebolt provides for attaching a support rope. The two sections are 45 and 90 ft. long requiring an overall install space of 135 ft. Alternately, it can be erected in only 68 ft. of space, but coverage is limited to 40, 20 & 10 meters only. Rated 300W CW/SSB. Comes fully assembled, ready to install. Wt: 7 lbs ..... **\$191.99**

## MEADOW RIDGE PRODUCTS



**COPPERWELD® Antenna Wire**

Forge-welding makes the two metals inseparable! Solid bare copper-over-steel wire - the best for antennas. Its very strong, the steel core has very little stretch and long service life. The copper covering provides low RF resistance and solders easily. Available in 12 or 18 gauge.

- AN-122** - 100 ft. #12 ..... **\$39.99**
- AN-123** - 150 ft. #12 ..... **49.99**
- AN-124** - 250 ft. #12 ..... **79.99**
- AN-126** - 500 ft. #12 ..... **139.99**
- AN-128** - 1000 ft. #12 ..... **239.99**
- AN-181** - 250 ft. #18 ..... **24.99**
- AN-182** - 500 ft. #18 ..... **39.99**



**Black Dacron® Polyester Rope**

Constructed of strong double braid Dacron® polyester fiber. It's colored black for UV protection and has excellent resistance to weather, mildew and abrasion. The rope ties and cuts easily and the ends seal with the short application of a small flame or hot tool.

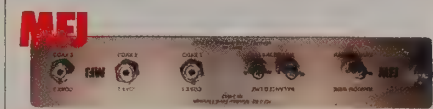
After a small initial "set" due to tightening of the braid, it has virtually no long term stretch, making it ideal for supporting dipoles, long wires, etc. Also, great for non-resonant guying of masts or towers. Use for overhead and side boom support on beam antennas to eliminate conductors in the RF field which can cause pattern distortion.

- 100'** - 100 ft., 260+ lbs. strength, 3/32"..... **\$9.99**
- 100' 3/16** - 100 ft., 770+ lbs., 3/16"..... **18.99**
- 100' 5/16** - 100 ft., 1790+ lbs., 5/16"..... **26.99**
- 350'** - 350 ft., 770+ lbs., 3/16"..... **49.99**



**Ladder Line Center Insulator/Support**

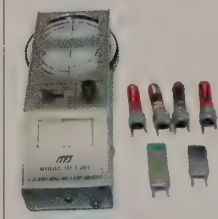
**LADDER-LOC** - Provides a secure attachment for 450Ω ladder type transmission line to dipoles and other wire antennas. Minimizes feedline flexing at the antenna feedpoint and ensures a long lasting, trouble-free installation. A top attachment point provided for a support rope. UV resistant..... **\$12.99**



**4602 Antenna Feedthrough Panel** - Simply place in window sill (up to 48 in. wide) and close the window down on it. You can feed three coax-fed antennas, balanced line, random wire and a ground into the shack without drilling through walls. Made of 3/4 inch pressure-treated wood sandwiched between two stainless steel plates. Has three Teflon® SO-239 coax feedthru connectors, three ceramic balanced line/random wire feedthru insulators and ground connection. Dim: 48"w x 3.5"h x 0.75"d ..... **\$69.99**



**912 W9INN Remote Balun** - Converts unbalanced coaxial line to balanced ladder line. When using an antenna with balanced line you can still use coax from your rig, thru walls, etc. to a more convenient location to attach the feeders without detuning. Uses a 2-core 4:1 balun wound with teflon® wire and heavy-duty ceramic feed-thru insulators. Handles 1500W. SO-239 connector, ground post and mounting holes. Dim: 3.25"w x 2.25"h x 7"d ..... **\$69.99**



**201 Dip Meter**

Find a coil's resonant frequency. Couple it to an antenna or coax line to find their electrical length. Use it as an absorption wavemeter for measuring transmitter output, neutralizing tank circuits, or even a field strength meter. Other uses include: crystal oscillator, monitoring audio signal outputs and measuring inductance and capacitance. Solid-state design, covers 1.5 to 250 MHz in six bands. It has thumb wheel tuning, color coded readout, six coils, earphone jack and battery check. Requires one 9V battery. Dim: 2.5"w x 2.0"d x 7"h ..... **\$139.99**



**762 Step Attenuator** - Provides push-button selection of up to 81dB of attenuation in 1dB steps up to 170 MHz and usable to 500 MHz. Rated for 250 mW maximum. 50Ω in/ out, BNC connectors with SO-239 adapters. Metal cabinet. Dim: 6.5"w x 2.5"h x 1.5"d ..... **\$89.99**



**H-422** Provides remarkable performance in a compact design. A perfect choice when an efficient but compact antenna is needed for a small or antenna restricted location. Assembles in either a "V" or "straight" configuration. In the "V" shape good performance is achieved at only 10-15 ft. above ground. Three pre-drilled radiator lengths for easy tuning to low-mid-high band ranges; the 40 Meter band tunes independently. Extruded aluminum mounting brackets, stainless steel U-bolts and hardware. Includes CBL-2000 50Ω balun with SO-239 connector..... **\$349.99**

- Length: 24.3 ft. in "V" configuration, 33.6 ft. mounted horizontally
- VSWR: Less than 1.5:1
- Maximum Power: 1000W SSB / 500W PEP.
- Mast Requirement: 1.25 - 2.5 inch diameter
- Weight: 11.8 lbs
- Wind Load/Wind Survival: 9.9 sq. ft./ 67 MPH



**5VB Vinyl Boot Kit**

Slide on to coax before installing the connector. Apply silicone grease, slide the boot up to seal, waterproof and protect connector from the elements. Waterproof connector boots come in a package of five along with individual tubes of silicone grease included ..... 5 pack **\$15.99**



**Protects radio equipment from static electricity and lightning induced surges up to 5,000 Amps while clamping the surge voltage to less than 50V in less than 100ns. Weather resistant aluminum case, brass hardware. Dim: 3"w x 1"h x 1"d.**

- LAC-4** 200W rating, SO-239 connectors. **\$64.99**
- LAC-4H** 2KW, SO-239 connectors..... **\$70.99**
- LAC-4N** 200W rating, type-N female ..... **\$79.99**
- LAC-4NH** 2KW rating, type-N female..... **\$84.99**
- Replacement Gas Discharge Tubes**
- LC-2** 200W, for LAC-4/4N ..... **\$19.99**
- LC-2KW** 2000W for LAC-4H/4NH..... **\$22.99**

**MFJ Antenna Insulators** - Extra strong glazed ceramic. Molded ridges give extra-long path to prevent voltage breakdown. Use as center or end insulator for dipoles, doublets, guy wires, etc. Dim: 2.3" long x 1" dia.... **16C01** each **99¢**

**ALPHA DELTA Antenna Insulators**

Made from an extremely rugged UV and RF resistant DELTALLOY material that is so tough, you can drop it off a roof without damage. Dim: 2.7" long x 1.7" dia. .... **DELTA-CIN** each **\$1.99**

Used / Demo  
 Ham Radios  
 Ham Radio Accessories  
 Antenna Accessories  
 Publications  
 Other Radios  
 Weather  
 Audio / Video & Tools  
 AES Information



# Lakeview Co., Inc.

## WD4BUM HAMSTICKS®

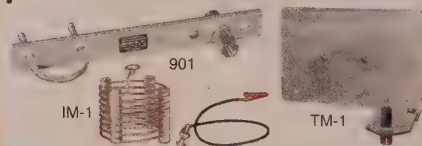
Two-Piece Monoband Mobile Antennas Hamstick 75 thru 10M models consist of a 47 inch long x 1/2 inch diameter fiberglass base section with the loading coil wound over its length and covered with black shrink-wrapped PVC. It's fitted on one end with a 3/8" X 24" brass base fitting to fit most mobile mounts. A black 48 inch stainless steel whip telescopes into the top of the base section and provides for frequency adjustment. The 6M model has a 34 inch base section and whip. Frequency vs length graphs are included.

If the antenna shows a SWR of 1.5 to 1 or better, no matching should be necessary. However, on 40 and 75M, you can capacitively match the base for a better match using values from the instruction sheet. If you frequently change bands you can use the IM-1 Inducti-Match which is an impedance matching coil that simply installs at the base of the antenna and adjusts by using the supplied clip lead to tap up the coil for the best match.

### Hamstick Models (band)

<b>9106</b> (6M)	<b>9110</b> (10M)	<b>9112</b> (12M)
<b>9115</b> (15M)	<b>9117</b> (17M)	<b>9120</b> (20M)
<b>9130</b> (30M)	<b>9140</b> (40M)	<b>9160</b> (60M)
<b>9175</b> (75M)		

All Hamstick models..... each **\$39.99**



- 901** Dipole Mount - Attach two Hamsticks to make an effective shortened dipole ..... **\$19.99**  
**IM-1** Inducti-Match ..... **26.99**  
**TM-1** License Plate Mount - 3/8" x 24" ..... **49.99**

## YAESU

**ATAS-25** HF/VHF/UHF QRP Field Antenna - Perfect for portable use with the Yaesu FT-100D, FT-817, FT-857 or FT-897. Covers 7, 14, 21, 28, 50, 144 & 430 MHz. Switch bands by changing the supplied elements and adjusting coil. SWR: <2.0:1; Power: (HF/6M) 100W SSB/CW @ 50% duty cycle; (144/430 MHz) 50W. Recommended mount is a camera-type tripod (not supplied). SO-239 base. Dim: 7.2 ft. tall, 2 lbs..... **\$249.99**

**ATAS-120** HF/6/2/430 Motorized Tuning Antenna - Mechanically resonates the radiating element for lowest SWR using control voltages thru the coaxial cable from an ATAS equipped Yaesu. Recommend use of a duplexer otherwise coaxial cable must be moved manually to correct jack when switching VHF & UHF. Mounts directly onto a standard Diamond or Comet mobile mount. Power: 120W @ <2:1 VSWR. Dim: 4.59 to 5.25 ft.; 1.98 lbs ..... **\$299.99**

**ATBK-100** VHF/UHF Antenna Base Kit - Not required unless operating the VHF or UHF bands with the ATAS-120 off-vehicle. It restores the low-angle response for enhanced performance. Use with suggested base mount ..... **\$99.99**



## MFJ

Manually Tuned  
Screwdriver Antenna

Small and lightweight, supplied with a 4.5 ft. telescopic whip for mobile and a 10 ft. telescopic whip for greater efficiency stationary use. Quickly and easily tuned by sliding the aluminum cover over the coil. Copper beryllium finger stock completely surrounds the coil for solid connection as tuning is accomplished. Unused turns on the antenna are shorted out and completely shielded. Once tuned, a nylon tipped thumbscrew locks the cover in place to prevent movement. The 4.5 ft. whip collapses to 23 in., the 10 ft. whip to 19 in. Coil and whips can easily be packed into a backpack for hiking or camping. A standard 3/8" x 24 male mount in the base makes it easy to connect to an existing mount.

**1661** - 40-6M, 12 in.; 1 lb ..... **\$139.99**

**1664** - 80-6M, 15 in.; 1.25 lbs.... **\$169.99**

**1624** HF Mini Bugcatcher - Operate 40 thru 6M, using up to 300W P.E.P. Very simple tuning by changing the tap on the efficient air-wound coil and adjusting the supplied counterpoise for best SWR. The 5.5 ft. whip collapses to 2.5 ft. for storage or avoiding a garage door. Versatile mounting using a trunk lip, mirror, luggage or trimag mount (shown but not included) .. **\$89.99**

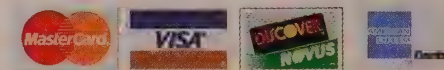
**1899T** Walkabout™ Multi-band Telescoping Antenna - Designed specifically for the Yaesu FT-817 multi-mode HF/VHF/UHF portable transceiver or other QRP portables. Covers all bands (including WARC bands) from 80 to 6 meters. Power rating is 25 Watts. When fully extended it is just over 5 ft. long and is fitted with a BNC connector. Band changing is achieved by plugging a lead into the appropriate socket on the base coil, and fine tuning using the 10-section telescopic whip. For storage or travel, the whip unscrews from the base matching coil and measures only 8 in. collapsed ..... **\$79.99**

**1925** Screwdriver Antenna Controller - Use the Yaesu ATAS screwdriver antenna with Alinco, Kenwood and other transceivers. Installs in-line between the antenna and rig and provides the necessary control voltage to operate the antenna..... **\$79.99**

**192512** Screwdriver Antenna Controller Designed for the Icom IC-706 with a special control cable and 4-pin connector that mates with the 706 controller port. The Up/Down switch puts the 706 in low power and tunes antenna. When the lowest SWR is found, simply release the switch and you're ready to operate. Simple to install. No modification to the radio or antenna is necessary ..... **\$79.99**

**1910** Telescoping Fiberglass Mast (left) - 33 ft. tall, collapses to 3.8 ft. and weighs only 3.3 pounds. Pull out each section and twist to lock. Its great for portable and temporary use - traveling, camping, from hotels, hamfests, field day, DXpeditions. Use it to make other antenna like loops and quads. The mast is made of super strong fiberglass and flexes to resist breaking, the bottom section has a 1-3/4 in. diameter. Black coating resists UV..... **\$79.99**

## ORDER ONLINE!



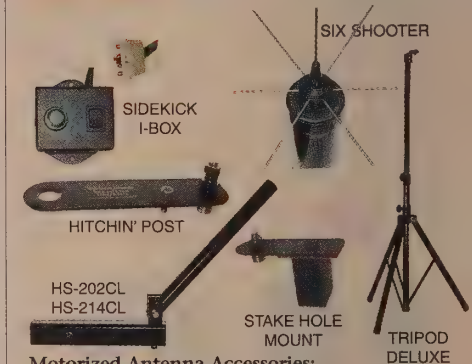
## High Sierra Antennas

**PLATINUM PACK** Continuous coverage Motor Driven HF Antenna Package - The HS-1800/PRO antenna provides continuous tuning from 3.5-30 MHz with a typical VSWR of less than 1.5:1 across the entire tuning range. Removing the supplied 6 ft. whip changes the range to 6.9-60 MHz. The "best antenna" for general mobile use because of its light weight, high performance and ability to cover the entire HF spectrum. Great for stealthy operation at antenna-restricted QTHs, ARES/RACES and more! The complete package, ready to install, includes the HS-1800/PRO, black powder coat finish with black stainless-steel whip, black universal mounting bracket, quick-disconnect manual control box, RF filter assembly and installation kit (20 ft. of control cable, wire ties, (2) PL-259's, 3 ft. of ground strap and sealing material .. **\$545.00**

**SIDEKICK** Continuous Coverage, Motor Driven HF Antenna - Similar in design to the HS-1800/PRO but, only 15 in. tall and comes with 3 ft. whip. Covers 3.5-60 MHz, handles 200W. Includes manual control box, RF filter assembly and 3/8-24 threaded base to use with a mounting bracket ..... **\$395.00**

**SIDEKICK I-BOX** Continuous Coverage, Motor Driven HF Antenna - Same as Sidekick, but includes a semi-automatic I-box controller for Icom transceivers: IC-703, 706, 718, 736, 746, 756, 765 and IC-775 with no external power needed. To tune, just press the switch on the control box. The transceiver automatically transmits with low power. When the SWR drops down, release the switch. Typical tune-up time is less than 10 seconds ..... **\$445.00**

**I-BOX-7000** I-BOX for Icom IC-7000. **\$110.00**



### Motorized Antenna Accessories:

**HS-202CL** Layback Adapter - Fits a 2 in. trailer hitch receiver. Removing a pin allows the vertical rod to lay back at a 45° angle for access to trunk, rear hatch or tail gate. Black powder coat.. **\$130.00**

**HS-214CL** Layback Adapter - Same as 202CL, but fits 1.25 x 1.25 in. hitch receiver. C/O **\$99.99**

**SIX SHOOTER** Capacity Hat - Shown mounted on the Sidekick. Improves performance .... **\$70.00**

**STAKE HOLE MOUNT** - Used to install the Sidekick and other antennas into the stake hole on a pickup truck (bed sidewall). It has an SO-239 with a 3/8-24 thread for the antenna connection .. **\$27.00**

**TRIPOD DELUXE** - A strong aluminum adjustable 6 ft. tripod, the perfect antenna mount for the next trip or emergency. Includes a stainless angle 3/8-24 thread antenna mount with SO-239 connector and (8) 10 ft. long wire radials .. **\$130.00**

**HITCHIN' POST** - Mounts under a trailer hitch-ball. Made from thick stainless steel, black powder coated. Standard 3/8-24 thread antenna mount, SO-239 connector and ground screw ..... **\$50.00**

Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 W!

Browse Our Store On-Line at [www.aesham.com](http://www.aesham.com)



Screwdriver HF Antennas



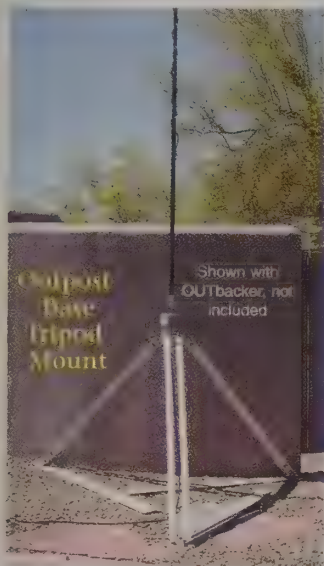


# OUTbacker System

The Outbacker – provides efficient, multiband mobile performance in a rugged, lightweight, single whip design. Its sleek, low profile design allows use with standard 3/8-24 bases and trunk-lip mounts.

It features a fiberglass shaft, using a pre-tuned copper helical winding with clearly marked brass band taps at points along its length. A final coating of smooth epoxy resin and polyurethane, gives the OUTbacker a toughness and durability not found in other brands, while making a really good looking mobile installation.

To change bands, simply plug into the desired band tap and resume operating without changing whips, resonators, or retuning.



**The Outpost Base Tripod Mount** – A convenient way to use mobile antennas in BASE or PORTABLE applications. The large (36"x3") fold out feet form a large capacitor with the earth resulting in greatly improved efficiency. Makes an ideal condo, limited space antenna system that can provide incredible DX performance. Compact, fold-up design sets up quickly and collapses in seconds with no holes, no concrete required. Mount: 3/8" x 24 thread.

See Page 19 in the Price Guide for listing of all OUTbackers and Accessories

**ICOM**

HF/50 MHz

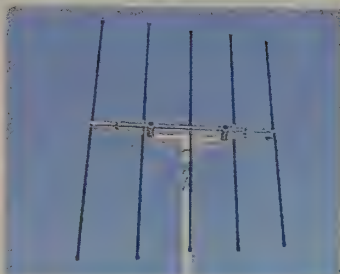
Five-Band Antenna

**AH-703** – Designed for convenient portable operation when using ICOM's IC-703 and IC-703PLUS. It covers the 7, 14, 21, 28 and 50 MHz bands with a 1/4-wave design and has a 20 Watt power capacity. The bands are covered by simply changing the supplied coils. The base terminates in a PL-259 connector which requires a PO-style mount. Dim: 4.6 ft. high; 12 oz.... **\$219.99**



## ELK ANTENNAS

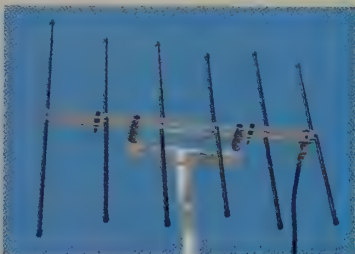
Log Periodics – Super wideband performance yielding great gain, high front-to-back ratio and low SWR without tuning. Designed with the latest software!



**2M/440-L5 2M/440 MHz Log Periodic** – Dual band operation without a duplexer, and only one feedline. Great for HT satellite contacts. Change polarity by twisting the mounting assembly to change from vertical to horizontal. Quick assembly and disassembly for portability. Color coded elements screw onto studs on the color-coded boom. Corrosion resistant, aluminum alloy, boom, black anodized aluminum elements and stainless hardware. 144-148 MHz; 5 elements; 6.8dbd gain / 430-450 MHz; 7dBd gain; 1:1 SWR; 20+dB F/B ratio; rated 200W (2M), 100W (440); 24 in. boom; 1.3 lbs..... **\$98.99**



**440-L8 440 MHz Log Periodic** – The latest model with increased gain and wide bandwidth. It's really great for 2M fox hunting, allowing radiation of the 3rd harmonic for a harder to find signal. Color coded boom and elements for easy, portable assembly and disassembly. Uses 6061-T6 aluminum alloy and stainless steel hardware provides strength and long life. 420-450 MHz; 8 elements; 8dB gain; 1:1 to 1.5:1 SWR; rated 200W; 24 in. boom; 12 oz.... **\$89.99**



**220-L6 220 MHz Log periodic** – All of the great Elk Antenna log-periodic features in a popular 220 MHz version. 222-225 MHz; 6 elements; 7.3 dB gain; 1:1 SWR; 28+ dB F/B ratio; 24 in. boom; 1.3 lbs ..... **\$89.99**

**ELK BAG Canvas Carrying Bag** – For convenient transporting of all ELK antennas ... **\$24.99**

Silver-teflon® connectors on all models

## Arrow Antenna

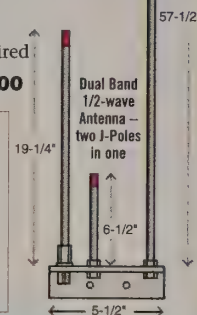
146/440 MHz  
Dual Band J-Pole  
Antenna

This is a very Heavy Duty antenna. The elements are made from 3/8 in. solid round aluminum stock with a heavy duty angle mounting bracket and mounting hardware for masts up to 1-1/2 in. included.

- Covers 143-149 and 437-450 MHz
- Single SO-239 feed connector
- Omni-Directional radiation pattern
- Wide Bandwidth
- VSWR less than 1.5:1
- Gain over a 1/4-wave
- No Ground Plane required

**OSJ-146/440... \$39.00**

Mounts just about anywhere: in attic, on a roof vent pipe (up to 1-1/2"), on metal, wood or fiberglass poles, on fiberglass or plastic vehicles, trucks, boats.



## LEO Satellite Antenna



**146/437-10** – K5YY working thru a satellite using his handheld with only 500mW output, connected to an Arrow 146/437-10. The Arrow is designed to allow portable satellite operation using just an HT. It's engineered to provide maximum gain and efficiency within a small size and weight. The boom is 3/4 in. square aluminum stock, 37.5 in. long with a foam grip on the rear. The (3) VHF and (7) UHF elements are strong and lightweight aluminum arrow shafts, plastic tipped for safety. Gamma matched system with BNC connectors for each band ..... **\$73.00**

**146/437-10BP** – Split boom model... **\$79.00**

**10W DUPLEXER** – Allows you to hear the down link while you are transmitting. Installs inside the boom and includes connecting coax cables with BNC connector ..... **\$59.00**

**DUPLEXER SMA** – w/ SMA connector **\$64.00**

## Goliath

Tri-Magnet Mount

**336S** – Has (3) Super Strong 5-inch magnets bolted to a 1/4 in. thick triangular mount. SO-239 antenna mount. Comes with 17 ft. of coaxial cable and PL-259 connector.

**336T** – Same as 336S except has a 3/8" x 24 stud mount instead of an SO-239.

Each model ... **\$39.99**

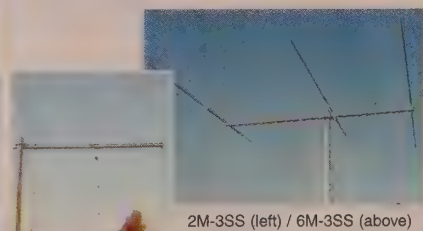


Used / Demo  
Ham Radios  
Ham Radio Accessories  
Antennas  
Publications  
Other Radios  
Weather  
Audio / Video  
AES Information





**High Performance Yagis** – The standard, combining the latest computer optimization techniques and decades of design experience by Mike Staal, K6MYC. Big gain and clean patterns for long-haul, tropo and EME. The rugged, waterproof driven element module uses an efficient T-match with 4:1 balun and SNS connectors that are O-ring sealed to a CNC machined block with internal connections encapsulated in silicone gel and a type "N" connector with a beryllium copper, gold-plated center pin. Models for 6M, 2M, 222, 432/440 MHz, 1.2 GHz.



**Starter Series Yagis** – Low cost, medium performance antennas for your first venture into VHF and UHF bands. Tailored for compact size and portability. Great for field day, vacations, mountain topping, fox hunts, DXpeditions. Each antenna breaks down to no more than 40 in. long, making it a natural for trips. Perfect for deed restricted areas where windload and overall appearance must be kept to a minimum. Uses 3/16" dia. rod aluminum insulated elements, a driven element Gamma Match feed with no balun and a single heavy duty mounting cradle with stainless hardware. Models for 6M, 2M, 222 and 432 MHz.

**HO Loops** – At times when using highly directional VHF or UHF antennas there are signals you cannot hear off the sides and back. The addition of a horizontally polarized and omni-directional **HO-Loop** to your setup will enable you to be aware of those stations you may be missing. Great for round tables, nets and monitoring for band openings. A super mobile antenna, with contacts up to 200 miles not uncommon. Rugged tuning and 50Ω matching system; stacking kit/harness available. Typical gain is 4.0+ dBd, and power rated at 800W or 1.5kW when stacked. Models for 6M, 2M, 222 and 440 MHz.

**Eggbeaters** – Produces smooth omnidirectional Horizontal/RHC polarity at the horizon. Perfect for satellite or SSB modes. Models for 2M & 432 MHz. See Page 16 in the Price Guide and for more information go to: [www.m2inc.com](http://www.m2inc.com)



## Laird TECHNOLOGIES®

Formerly  
Antenex



**The Phantom®** – The low profile, whipless design doesn't look like a regular antenna so it attracts less attention. Requires NMO-style mount.

**TRABT-1420** VHF – Tunable 142-164 MHz, unity gain. Black, 3.3" tall x 1.5" dia. radome .... **\$59.99**

**TRAB-4303** UHF – Covers 430-450 MHz, 3 dB gain. Black 3.3" h x 3.5" dia. radome..... **\$29.99**

**BB-1443** VHF Wideband Antenna Base loaded 5/8-wave. Covers 144-174 MHz, 3dB gain, 49 in. tapered whip. Requires NMO mount. (Black) ... **\$39.99**

**CWB-1443** VHF 5/8-Wave Broadband Self Tuning 144-156 MHz, 3dB gain, 47" tapered whip. (Black) ..... **\$49.99**

**CWB-4405C** UHF Wideband Collinear – Self Tuning 440-470 MHz, 5dB gain, 32" tapered whip. Requires NMO mount. (Black)..... **\$49.99**

**BB-1442N** Broadband, 5/8-Wave No Ground Plane – Base loaded, 144-174 MHz, 2.4dB, 49" tapered whip .... **\$39.99**

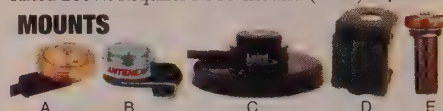
**BB-4303** UHF 5/8-Wave – Covers 430-450 MHz, 3dB gain, 11.8" straight whip. Requires NMO mount. (Black) ... **\$34.99**

**AB-FT** Broadband 1/4-Wave – Tunable 118-896 MHz, unity gain, requires NMO mount .... **\$16.99**

**AB-SCANC** Collinear Scanner Antenna – For 150/450/800 MHz receive only. Requires NMO mount. (Black) ..... **\$29.99**

**CB-144/440C** Collinear Dualband VHF/UHF Covers 144-148 & 440-450 MHz, 2/5dB, 36" whip. Rated 200W. Requires NMO mount. (Black) .. **\$49.99**

### MOUNTS



**MB-8PST** NMO Permanent Brass Hole Mount (A) Quality brass alloy, silver-soldered ground lug. Mounts in 3/4" hole. Includes 17' of RG-58A/U coax with PL-259 connector. .... **\$16.99**

**TM-8PST** NMO Mini-Trunk Lid Mount (B) Chrome, includes 17' of coax with PL-259 ..... **\$26.99**

**GB-8PSTI** NMO Magnetic Mount (C) – Strong, 90 lbs. pull. Mylar sole prevents scratches. Includes 12' RG-58A/U with Teflon® PL-259 connector.. **\$34.99**

**LBMB-9034** Mirror Mount L-Bracket (D) – Strong aluminum, black. For 3/4" hole mounts... **\$10.99**

**VTPM** Plate Mount (E) – 1" thick, NMO... **\$19.99**



**Gold-Anodized Welded Yagis**  
Internally matched, wide band, no tuning. End-of-boom N-type connector, internal transmission line feeds the driven element.

**Y-1363** 3-Element VHF – Covers 136-150 MHz, 7.1 dBd, 17 dB F/B. Rated for 500W. Mounts on mast up to 2.5" diameter..... **\$99.99**

**Y-4303** 3-Element UHF – Covers 430-450 MHz, 7.1 dBd gain, 17 dB F/B. Rated for 300W. Mounts on mast up to 2.5" diameter..... **\$99.99**

**Y-1365** 5-Element VHF – Covers 136-150 MHz, 9.2 dBd gain, 20 dB F/B. Rated for 300W. Mounts on mast up to 2.5" diameter..... **\$129.99**

**Fiberglass Omnidirectional Base Antennas** – for 144-148 and 440-450 MHz. White fiberglass with gold anodized sleeve & cap & N-female connector. For models see Antenex on Pages 4 & 5 in Price Guide



**A-99** 10M Base Antenna with Twin Ring Adjust-A-Match Tuning – Voltage-fed, half wave variable, mutual transfer inductance tuned antenna. It's economical and easy to use! The SOLARCON sealed base unit is tuned with external inductance rings. Impedance remains constant over the tuning range. Simple Tuning! Raising the tuning rings raises the frequency and lowering the rings lowers it.

Rugged, three-piece, white fiberglass construction with triple-plated brass fittings. It's easy to assemble and install. The optional GPK-1 ground plane radial kit makes it perform even better!

Full 10 meter band coverage; 3 dBi gain; 2kW power limit; Low angle of radiation for DX; DC grounded; Mounts on 1.5 in. mast; Uses 52Ω coaxial cable with SO-239 connector. Overall length is 17 ft. 8 in. .... **\$79.99**



**GPK-1** Groundplane Kit  
Use with the A-99 for 30% gain and lower angle of radiation. Collar and 4 fiberglass radials..... **\$59.99**



### YAGI

**SKYHAWK 3X10** Triband Yagi – A design breakthrough. 3-band, 10-element, 20/15/10M, rust free. **Drop Ship \$1149.99**

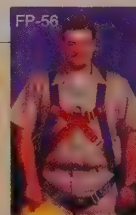
**HF-2V** 80/40 Vertical – Optimal output on 80 and 40m because the full length of 32 ft. is used on both bands ..... **\$299.99**

### VERTICALS

Take advantage of all HF bands from 80 to 6m with high efficiency - without losses through traps. Both antennas (HF-6V, HF-9V) are only 26 ft. high and can be mounted directly on the ground or elevated on a roof top. Additional accessories may be found in the Price Guide under Butternut.

**HF-6VX** 6-Band Vertical..... **\$389.99**

**HF-9VX** 9-Band Vertical..... **\$449.99**



### FULL BODY CLIMBING HARNESSES

TowerMate LE™

**FP-56222** – Two D-ring, 2.7 lbs., S-L. **\$85.99**

**FP-56224** – Two D-ring, 2.8 lbs., L-XL. **\$85.99**

**FP-56422** – Four D-ring, 3.0 lbs., S-L. .... **\$99.99**

**FP-56424** – Four D-ring, 3.2 lbs., L-XL. **\$99.99**

EagleTower LE™

**FP-66611** – Six D-ring, 5.1 lbs., S. .... **\$246.99**

**FP-66612** – Six D-ring, 5.2 lbs., M. .... **\$246.99**

**FP-66613** – Six D-ring, 5.3 lbs., L. .... **\$246.99**

**FP-66614** – Six D-ring, 5.4 lbs., XL. .... **\$246.99**

All Glen Martin items are Drop Shipped.

See Page 9 in the Price Guide for more Glen Martin products.



Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI

Browse Our Store On-Line at [www.aesham.com](http://www.aesham.com)



## Miracle Antenna



### Miracle Whip

All Band, Rig Mounted Tunable Whip

For QRP (5W) or SWL rigs – a completely self-contained, all-band 57 inch telescoping whip antenna with integrated tuner for receiving and transmitting that mounts right on a radio's antenna connector. Continuous tune 0.6 to 500 MHz RX and continuous tune 3.5 to 450 MHz TX. The variable auto transformer design operates effectively without a counterpoise as the continuously variable nature permits finding a good match using whatever ground paths are available ..... **MIA Miracle Whip \$139.99**

### Miracle Ducker

Wideband for your Wideband Handheld

Transforms your rubber duck into an all-band HF/VHF/UHF transmitting and receiving antenna with up to 30dB of RX gain on HF. Your portable or base rig now can receive AM, the Ham bands, International Shortwave, CB, FM, Airband, VHF and more. And for more fun, you can still transmit thru with the same antenna at QRP levels. The built-in BNC connector, mounts directly onto the radio. **MIA Ducker IL \$139.99**

**MFJ**

### RUFFRIDER™ Mobile Antennas

(The mounts shown are not included)



Quality construction using precision machined components. Rugged, designed to battle the elements.

Dual band 144/440 MHz mobiles have stacked stainless steel elements with high-Q phasing coils resulting in outstanding gain. Phased radiators flatten radiation patterns and concentrate power at the horizon.

All models are factory tuned for SWR less than 1.5:1 and have 50Ω impedance. Each comes w/SO-239 base, but also includes a FREE NMO adapter.

**1402 Junior** – 16.5 in., handles 100W. Unity gain on 2M, 3dB gain 440 MHz. No fold-over. **\$34.99**

**1412 High Power** – Only 40 in. long but handles a full 200W. Great for high power mobile & amp. 3dB on 2M, 5.5dB on 440 MHz. **\$49.99**

**1422 High Gain** – 41.5 in. long giving you extra gain with little increase in height. Handles 150W. 3.2dB on 2M, 5.7dB on 440 MHz. **\$49.99**

**1432 Hyper Gain** – 62.5 in. long. 5dB gain on 2M, 7.6dB gain on 440 MHz. Handles 150W ... **\$69.99**

**1436 Triple Threat** – 59 inches long, stacked elements with high-Q phasing coils give a whopping 7.3dB gain on 440MHz, 4.5 dB on 2M and 2.15dB on 6 Meters. Handles 150W. **\$79.99**

## THE SMILEY ANTENNA CO.



### HAND TUNED ANTENNAS for HANDHELD RADIOS

Each Smiley antenna is individually tuned to resonance at the band center under normal operating conditions (no ground plane, no radials). They're manufactured from the finest heat-treated copper plated spring steel coils. Cold rubber compound is used for coil insulation with a PVC heat-shrink coating applied for strength and endurance. All have BNC connectors and rated for 50 Watts.

**TS Thin Stick** – 1/4-wave telescoping dual band antenna for 144 and 220 MHz bands..... **\$16.99**

**SS-II Super Stick II (A)** – 2M, 5/8-wave, flexible base loaded telescoping antenna. 6-9db gain fully extended. Usable fully collapsed, or one section 1/4 wave. 54" extended, 10" collapsed..... **\$19.99**

**SS-II/COMBO Super Stick II Combo** – Same as above, but includes a 2m stubby duck ..... **\$29.99**

**5/8 SLD-2 5/8 Slim Duck (B)** – 2m, 5/8-wave, 7db gain, flexible base loaded ant. 12" long..... **\$19.99**

**5/8 SLD-2 COMBO 5/8 Slim Duck Combo** – As above, but includes a 2m stubby duck ..... **\$29.99**

**RD-2 Regular Duck (C)** – For 2m. Tuned ducks show a 3db gain over other rubber ducks because they are impedance matched for HTs..... **\$15.99**

**RDS-2 Stubby Duck (D)** – Tuned, for 2m **\$15.99**

**SS-III Super Stick III** – 220 MHz 5/8-wave, flexible base loaded telescoping antenna. 6-9 db gain extended; usable collapsed, or a one-section 1/4-wave. 36" extended, 8 3/4" collapsed..... **\$19.99**

**SS-III/COMBO Super Stick III/Combo** – As above, but includes a 220 MHz stubby duck ..... **\$29.99**

**5/8 SLD-220 5/8 Slim Duck (E)** – 220 MHz, 7db gain, flexible base loaded 9" antenna ..... **\$19.99**

**5/8 SLD-220 COM 5/8 Slim Duck Combo** Same as above, but includes a 220 MHz stubby duck antenna..... **\$29.99**

**RD-220 Reg. Duck (F)** – 220 MHz, tuned **\$15.99**

**RDS-220 Stubby Duck (G)** – As above ... **\$15.99**

**SS-IV Super Stick IV (H)** – 440 MHz 5/8-wave, flexible telescoping ant. 6-9db gain extended; usable collapsed. 18" extended, 5 3/4" collapsed ..... **\$19.99**

**SS-IV/COMBO Super Stick IV Combo** – Same as above, plus has 440 MHz stubby duck ..... **\$29.99**

**SL-440 Slimline (I)** – 440 MHz, 3/4-wv. flex **\$15.99**

**5/8 SLD-440 5/8 Slim Duck (J)** – 440 MHz, 7db gain, flexible base loaded 5" antenna ..... **\$19.99**

**5/8 SLD-440 COM 5/8 Slim Duck Combo** As above, plus has a 440 MHz stubby ..... **\$29.99**

**RDS-440 Stubby (K)** – 440 MHz, tuned. **\$15.99**

**RDMD-440 Mini Duck (L)** – As above.... **\$15.99**

**FLX 1/2 WAV-2M Flex-Coil (M)** – 2M, 1/2-wave, 7-9dB gain, flexible base, 35" fully extended **\$25.99**

**270A (N)** – Telescoping 2m/220/440 antenna. 1/4-wave (2m); 5/8-wave (220 MHz); 5/8 & 1/4-wave (440 MHz);. Also available with SMA. each **\$19.99**

**TAQ** – 1/4-wave whip antenna, specify for 2M, 220 or 440 MHz ..... each **\$10.99**

### HT RANGE EXTENDERS

**1714 Long Ranger™ 2M Halfwave BNC** – This end-fed 1/2-wave is hard to beat. It outperforms a 5/8 wave because it does not need a ground plane. At 40 in. extended, it's shorter, lighter, has more gain and places less stress on the antenna connector. When collapsed to 10.5 in., it performs equal to a regular rubber duck.... **\$16.99**

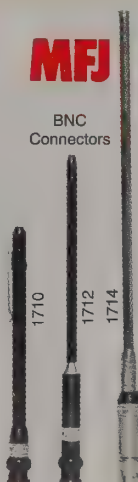
**1712 Dual Bander™ 2M/440 MHz BNC** – 1/4 wave for 2m and 5/8 wave with gain for 440 MHz. Dim: 4.5 in. collapsed, 14 in. extended ..... **\$14.99**

**1712S** – Same as 1712 w/SMA connector ..... **\$14.99**

**1710 Pocket Linear™ 3/8 Wave, 2M BNC** – Clips in your pocket like a pen. When using your rubber duck in fringe or noisy areas, put on the Pocket Linear, extend out to 24.5 in. and carry on your QSO. Only 5.25 in. collapsed ..... **\$9.99**

**MFJ**

BNC Connectors



### Clip Window Mount for Handheld Antennas

When mobile you can get out better by detaching the antenna from your HT and installing it on this handy window clip mount. It holds the antenna securely on the glass outside of your car and dramatically improves both transmit and receive signals. Comes with 10 ft. of mini-coaxial cable. Order **310** with BNC connector or **310S** with SMA ..... each **\$19.99**



### Midget Duck for 2M/440 MHz

An amazing antenna for its size. Less than 1 inch tall, it's great for travelling and monitoring and doesn't get in the way. Also works well for signals at 1200 MHz. Order **1719** with BNC connector or **1719S** with SMA..... each **\$19.99**



More HT Antennas on Comet/Maldol, Diamond and Larsen pages



# CRANK IT UP!

## MA SERIES CRANK-UP TUBULAR TOWERS

The premier MA-Series towers are designed to be both safe and neighbor-friendly. The slender design gives a clean flagpole-like appearance while allowing antennas from 15.3 to 22 sq. ft. in 50mph winds, depending on the model.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
MA-40	40'/21'6"	2	242	3"sq./4.5"	3'x3'x4'6"	\$1469.99
MA-550*	55'/22'1"	3	435	3"sq./6"	3.5'x3.5'x5'	\$2269.99
MA-770*	71'/22'10"	4	645	3"sq./8"	5'x5'x5'6"	\$3729.99
MA-850*	85'/23'6"	5	943	3"sq./10"	5'x5'x6'	\$5779.99

\*Also available as tower/heavy-duty motor drive (positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. 770 and 850 require MAB or MARB series base.

## FREE STANDING "LOW-PROFILE" CRANK-UP LATTICE TOWERS

The compact TMM Series are designed to offer an alternative for clients in height restricted areas. These towers have a minimum retracted height of 11'4" to 12' (depending on rotor). Visual impact is reduced and antenna servicing is made easier. The TMM Series are light weight, freestanding, and allow up to 50 sq. ft. of antenna in 50mph winds.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
TMM-433SS	33'/11'4"	4	315	10"/18"	4'x4'x4'6"	\$1979.99
TMM-433HD*	33'/11'4"	4	400	12.5"/21.5"	4'x4'x5'	\$2379.99
TMM-541SS*	41'/12'	5	430	10"/21.625"	4'x4'x5'	\$2579.99

\*Will accept the MDP-750 motor drive, factory installed only.

## FREE STANDING CRANK-UP LATTICE TOWERS

The standard duty TX Series are as strong or stronger than most competitors' heavy-duty models. They have 21' sections with 4' overlap to provide extra height, as well as to help prevent binding in high winds. The TX Series comes complete with rotor plate and base hardware and require no guying. All bases will accept the TRX Series raising fixtures.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
TX-438	38'/21'6"	2	355	12.5"/15"	5'x5'x5'	\$1849.99
TX-455	55'/21'6"	3	670	12.5"/18"	5'x5'x6'	\$2549.99
TX-472*	72'/22'8"	4	1040	12.5"/21.625"	5'x5'x6'6"	\$4179.99
TX-489MDPL**	89'/23'4"	5	1800	12.5"/25.625"	5'x5'x8'	\$10899.99

\*Also available as a tower/heavy-duty motor drive (with positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. \*\*Comes with heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control.

## FREE STANDING HEAVY-DUTY CRANK-UP LATTICE TOWERS

The HDX Series heavy-duty telescoping towers have up to 2-1/2 times more wind loading capacity than others (up to 70 sq. ft. at 50mph). This allows for large stacked arrays, while using commercial-type bases and anchor bolts. All T-bases can utilize the TRX Series raising fixtures, allowing the tower to hinge. None of the lattice style towers require guying.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
HDX-538	38'/21'6"	2	600	15"/18"	5'x5'x6'	\$2199.99
HDX-555	55'/21'6"	3	870	15"/21.625"	5'x5'x6'6"	\$3829.99
HDX-572MDPL*	72'/22'8"	4	1600	15"/25.625"	4'x4'x8'	\$9999.99
HDX-589MDPL*	89'/23'4"	5	2440	15"/30.625"	5'x5'x8'	\$13069.99
HDX-5106MDPL*	106'/24'8"	6	3805	15"/37.125"	5'x5'x9'	\$27469.99

\*Includes heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control (included with 589MDPL and 5106MDPL) or RMC-1000 remote control.



Headquarters  
1099 W. Ropes Ave.  
Woodlake, CA 93286  
(559) 564-6000

Second Location  
702 E. North St.  
Lincoln, KS 67455  
(785) 524-9966  
www.ustower.com

US Tower accessories are listed on page 21 in the Price Guide.

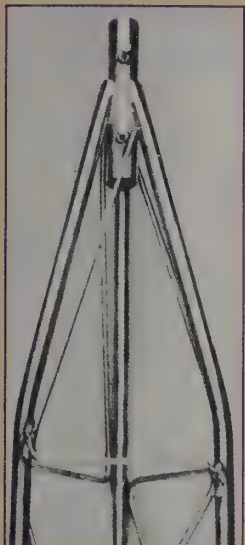
All towers are shipped directly from the factory. Additional freight charges apply. Ask us about...



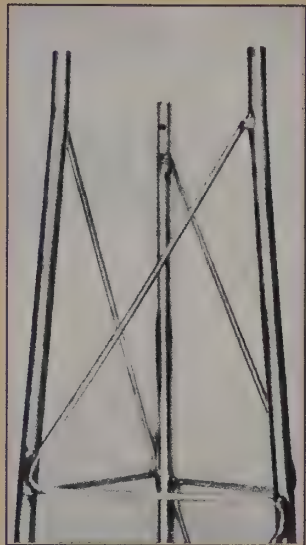
# UNIVERSAL TOWERS

ALUMINUM, FREESTANDING, SELF-SUPPORTING AT RATED LOAD

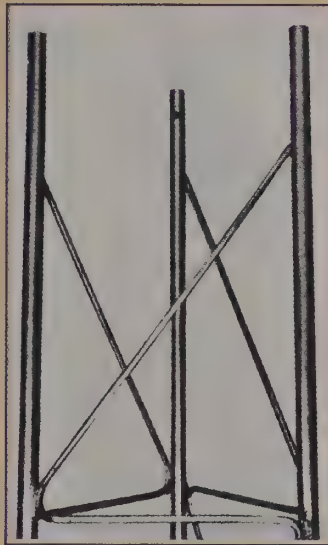
LIGHTWEIGHT • RUST FREE • EASY TO ASSEMBLE • RUGGED STRENGTH  
for AMATEUR RADIO • TV • FM • INDUSTRIAL • FIRE • POLICE • MARINE



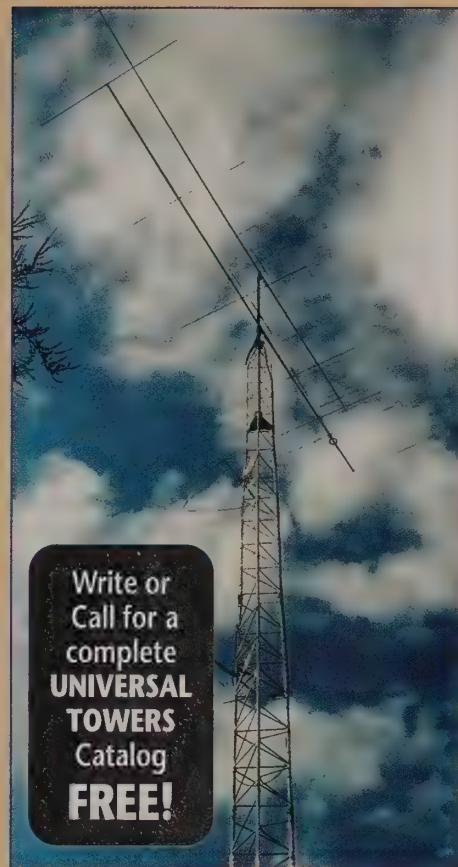
TOP SECTION



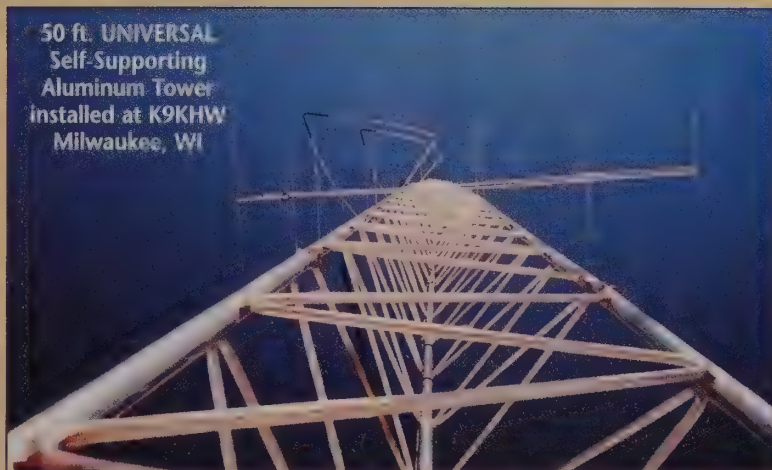
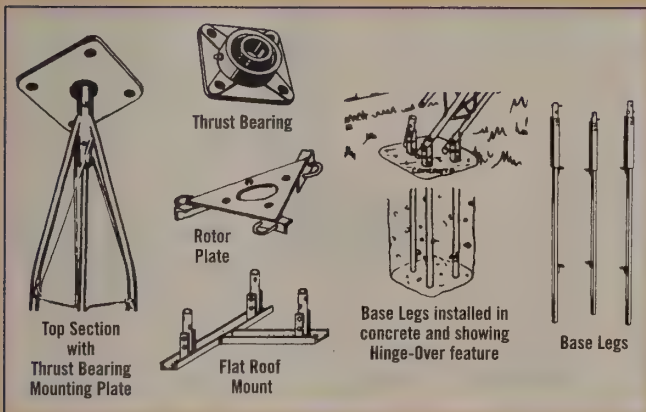
TAPER SECTION



STRAIGHT SECTION



Write or  
Call for a  
complete  
**UNIVERSAL  
TOWERS**  
Catalog  
**FREE!**



## No Guy Wires!

Self-Supporting at the Rated Load

### BEFORE BUYING A TOWER

Consider the advantages of -

## ALUMINUM

It's Strong, Lightweight, Rust Free and easy to assemble and erect.

UNIVERSAL offers 10' sections or complete towers ranging from 30 to 100' with a choice of wind load ratings and accessories.

All towers are drop shipped direct from the factory. Shipment is FOB Mt. Clemens, MI via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier.

### SECTIONS

Universal Aluminum Tower sections are an equilateral triangular welded truss, 10 ft. in length and available 11, 14, 18, 22, 26 or 30 inches wide.

### CHOOSING THE PROPER TOWER

- (1) Determine the projected surface area of the antenna that you intend to mount. This figure is often in the literature that comes with the antenna. Otherwise: standard TV antennas are about 2 sq. ft. in area; 6/10 meter beams and large TV antennas are 5 sq. ft.; 20/40 meter beams are 9 sq. ft.; large 20/40 meter beams or multiple antenna arrays are 18 to 26 sq. ft. Also, when using a rotator add 1 sq. ft. plus 1 sq. ft. for the mast to whatever size antenna you intend to use.
- (2) Decide on the tower height that you want. Universal Towers are made in 10 foot sections to give you many possible sizes and the ability to add sections later.
- (3) Choose the tower model based on height and windload. The model number is merely the wind loading followed by the height. For example, if your antenna calculation resulted in a tower designed for 5 sq. ft. and you wish it to be 50 ft. high, the model you want is a **5-50**.

See Page 22 in the Price Guide for Configurations and Prices.



# hy-gain ROTATORS

... the first choice of hams around the world!

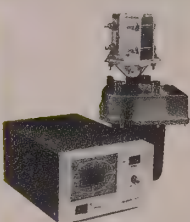


## The HAM-IV

is the most popular rotator in the world! It is designed for medium communications arrays of up to 15 sq. ft. wind load area. Low temperature grease permits normal operation down to -30° F. New alloy ring gear gives extra strength up to 100,000 PSI for maximum reliability. The indicator potentiometer leads have ferrite beads to reduce RF susceptibility. For convenience a Cinch® plug connector is used at the rotor plus an 8-pin plug at the control box. Dual 98 ball bearing race for load bearing strength and electric locking steel wedge brake prevents wind induced antenna movement. North or South center meter scale. Maximum mast size: 2.063 in. .... **\$629.99**

### Ham-IV Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (in lbs.)	800
Brake Power (in lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/98 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 ft/lbs.



## The HDR-300A

is the best for king-sized antenna arrays up to 25 sq. ft. wind load. Machined steel output gear. Tough, hardened stainless steel output shaft with a long keyway for added reliability. North or South centered calibration. Ferrite beads are installed on the potentiometer wires to reduce RF susceptibility. Heavy-duty self-centering steel mast clamp and hardware. Digital heading display accurate to 1°. Mast size: 1.25"-3" .. **\$1369.99**

### HDR-300A Specifications

Wind Load capacity	25 square feet
Wind Load (w/mast adapter)	N/A
Turning Power (inch lbs.)	5000
Brake Power (inch lbs.)	7500
Brake Construction	Solenoid operated locking
Bearing Assembly	Bronze sleeve w/rollers
Mounting Hardware	Stainless steel bolts
Control Cable Conductors	7 (Belden 8448 or 9405)
Shipping Weight (lbs.)	55
Effective Moment (in tower)	5000 ft/lbs.

## The TAILTWISTER SERIES II



is designed for medium communications antenna arrays of up to 20 sq. ft. wind load area. Available with DCU-1 Pathfinder Digital control box (T-2XD) or standard Analog control box (T-2X). Low temperature grease, alloy ring gear, indicator potentiometer, ferrite beads on potentiometer wires, weatherproof AMP connectors plus 8-pin plug at the control box. Triple bearing race with 138 ball bearings for large load bearing strength, electric locking steel wedge brake, North or South center meter scale, low voltage control. Maximum mast size: 2.063 in. **T-2X** with analog control **\$749.99**  
**T-2XD** with DCU-1 control **\$1179.99**

### TAILTWISTER Specifications

Wind Load cap.(inside tower)	20 square feet
Wind Load (w/mast adapter)	10 square feet
Turning Power (in lbs.)	1000
Brake Power (in lbs.)	9000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Triple race/138 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	28
Effective Moment (in tower)	3400 ft/lbs.



## The AR-40

is for large FM-TV and compact communication antenna arrays up to 3.0 sq. ft. wind load area. The dual 12 ball bearing race is exclusive in its class. Automatic position sensor never needs resetting. Fully automatic control, just dial and touch for any desired location. Solid state, low voltage control. Safe and silent operation. Maximum mast size: 2.063 in. Includes light duty lower mast support ..... **\$329.99**

### AR-40 Specifications

Wind Load cap.(inside tower)	3.0 square feet
Wind Load (w/mast adapter)	1.5 square feet
Turning Power (inch lbs.)	350
Brake Power (inch lbs.)	450
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/12 bearings
Mounting Hardware	Plated clamps/steel bolts
Control Cable Conductors	5 (Belden 8448 or 9405)
Shipping Weight (lbs.)	14
Effective Moment (in tower)	300 ft/lbs.



## THE HAM-V

is designed for medium communications antenna arrays of up to 15 sq. ft. wind load area. Includes the innovative DCU-1 Pathfinder control unit. A strong 100,000 p.s.i alloy ring gear and a new indicator potentiometer have been added for improved reliability. For convenience, a Cinch® connector is used at the rotor and an 8-pin plug at the control box. Ferrite beads reduce RFI. Powder coated finish. Max. mast size: 2.063 in. .... **\$929.99**

### HAM-V Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (in lbs.)	800
Brake Power (in lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/96 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 foot/lbs.

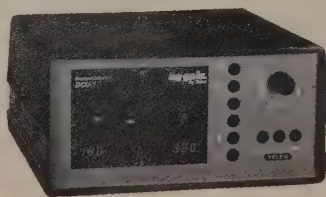


## The CD-45-II

handles 8.5 sq. ft. mounted inside a tower, or 5 sq. ft. with mast adapter. Low temperature grease good to -30°F. Bell rotator design gives total weather protection, dual 48 ball bearing race gives proven support. Diecast ring gear, stamped steel gear drive, heavy duty, trouble free gear train, North or South center scale, lighted directional indicator, 8-pin plug on control unit, snap-action control switches, low voltage control, safe operation, takes masts up to 2.063". Includes light duty lower mast support ... **\$429.99**

### CD-45-II Specifications

Wind Load cap.(inside tower)	8.5 square feet
Wind Load (w/mast adapter)	5.0 square feet
Turning Power (inch lbs.)	600
Brake Power (inch lbs.)	800
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/48 bearings
Mounting Hardware	plated clamps/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	22
Effective Moment (in tower)	1200 ft/lbs.



## The DCU-1 PATHFINDER Digital Rotator Control unit compatible with CD-45-II, HAM-IV, T-2X

Automatic operation of brake and rotor with digital readout out of your beam heading, accurate to 1-degree, and 360-degree choice for center of rotation. Automatic 8-second brake delay reduces stopping torque stress. Six presets store favorite headings. RS-232 control, compatible with many logging and contest programs..... **\$749.99**

## Rotator Accessories

- MSHD** Heavy duty lower mast support for Ham-IV/V, T-2X/XD ..... **\$99.99**  
**MSLD** Lower mast support for CD-45-II, AR-40 ..... **\$39.99**  
**TSP-1** Tower spacer plate..... **\$34.99**

## Belden Rotator Cable

- 8448** Standard duty, 8-wire  
**9405** Heavy duty, 8-wire  
**8484** Standard duty, 4-wire  
 See BELDEN in the Price Guide, page 5

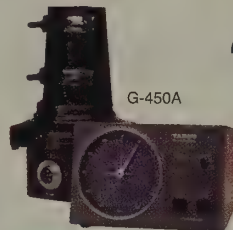




G-2800DXA



G-1000DXA



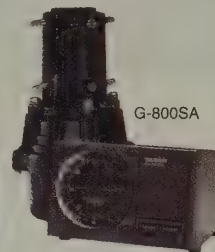
G-450A



G-5500



G-800DXA



G-800SA

## ROTATORS

Precision designed for a wide variety of antenna installations. Strong, weatherproof, die-cast aluminum enclosures; Permanently lubricated for years of smooth, quiet operation; 450° Rotation; Selectable north or south center; Quiet, gear reduction braking; 117/220 VAC; Fits most USA-made tower shelves.

**G-2800DXA** – The top-of-the line rotator for extra heavy-duty applications. 450° total rotation, with presets; 34 sq. ft. wind load; K-factor of 6870 ft. lbs.; 1808 ft. lbs. of stationary torque; Rotation torque: 57.8-181 ft. lbs., rotation speed and torque vary with the speed control setting; Maximum vertical load of 661 lbs.; ±1/2° backlash; 1.875–2.5" mast size; 48-150 second 360° rotation; Optional GS-232B interface; Includes 131 ft. of 6-wire cable. Dim: 8"dia. x 13.375"h; 13.2 lbs..... **\$1099.99**

**G-1000DXA** – High-performance for medium and heavy-duty applications. Total rotational range 450°, with presets; 23 sq. ft. wind load; K-factor of 2020 ft. lbs.; 433 ft. lbs. of stationary torque; Rotation torque: 43-79 ft. lbs., rotation speed and torque vary with speed setting; Max. vertical load: 440 lbs.; ±2° backlash; 1.5–2.5 in. mast; 35-74 sec. 360° rotation; Optional GS-232B interface; Requires 6-wire cable. Dim: 7.5"dia. x 12.5"h; 7.7 lbs..... **\$499.99**

**G-450A** – For HF/VHF light to medium-duty applications, without presets; 10 sq. ft. wind load; K-factor of 722 ft. lbs.; 217 ft. lbs. of stationary torque; Rotation torque: 43 ft. lbs.; Maximum vertical load of 220 lbs.; 1.5-2.5 in. mast size; 53 second 360° rotation; Requires 5-wire cable. Dim: 7.5"dia. x 12.5"h; 7 lbs..... **\$259.99**

**G-5500** – Azimuth-Elevation rotator combo for satellite earth station and other space communication antennas. 11 sq. ft. wind load; 578 ft. lbs. K-factor; 145 ft. lbs. stationary torque; Rotation torque: 44 ft. lbs.; 440 lbs. max. vertical load; ±4% backlash; 1.5–2.5 in. mast; 58 second 360° rotation; 67 sec. 180° elevation; Opt. GS-232B interface/C-1000 cable; 1.25–1.625 in. boom dia.; Requires 2 x 6-wire cable. Dim: 12.5"dia. x 7.5"h; 20 lbs..... **\$619.99**

**G-550** – Elevation rotator, for satellite earth station and other space communication antennas; 12 sq. ft. wind load; K-factor of 578 ft. lbs.; 101 ft. lbs. of stationary torque; Rotation torque: 73 ft. lbs.; Max. vertical load of 440 lbs.; ±3% backlash; 1.5–2.5 in. mast size; 67 second 180° elevation; 1.25–1.625 in. boom diameter; Requires 6-wire cable. Dim: 10.5"dia. x 7.5"h; 7.3 lbs..... **\$289.99**



**G-800DXA** – High-performance for medium-duty applications. Total rotational range 450°, with presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft. lbs. of stationary torque; 43-79 ft. lbs. rotation torque (rotation speed/torque vary with the speed control setting); Max. vertical load of 440 lbs.; ±2° backlash; 1.5–2.5 in. mast; 35-74sec. 360° rotation; Optional GS-232B interface; Requires 5-wire cable. 7.5" dia. x 12.5"h; 7.5 lbs..... **\$399.99**

**G-800SA** – High performance for medium-duty applications. Total rotational range 450°, no presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft. lbs. of stationary torque; 43-79 ft. lbs. rotation torque, rotation speed/torque vary with the speed control setting; Max. vertical load of 440 lbs.; ±2° backlash; 1.5-2.5 in. mast size; 44 second 360° rotation; Quick-disconnect plug; Requires 5-wire cable. Dim: 7.5"dia. x 12.5"h; 7.5 lbs..... **\$339.99**

## ACCESSORIES

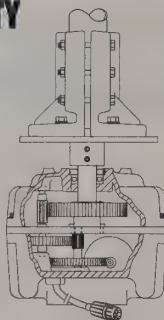
**GC-038** – Mast clamp..... **\$39.99**  
**GC-048** – Mast clamp for G-2800DXA..... **49.99**  
**GS-050** – 50mm thrust bearing (1.25"-2") **39.99**  
**GS-065** – 65mm thrust bearing (1.5"-2.5") **54.99**  
**GS-232B** – Interface for DXA rotators..... **589.99**  
**C-1000** – GS-232B cable for SDX's/5500... **34.99**  
**GS-680U** – Universal, self adjust. bearing **109.99**  
**SEP KIT** Separation kit for G-5500 ..... **29.99**

*K-factor: Multiply antenna turning radius x weight; add K-factors for each antenna*

## M<sup>2</sup> SUPER DUTY Rotator

### OR-2800PDC Rotator

The most powerful and reliable. Rotates multiple HF antennas or large VHF or UHF arrays with ease. The control box provides manual features, plus heading preset, 10 programmable presets, programmable ramped start/stop with 1/2-degree target accuracy. **Features:** RS-232 port for computer control; Precision worm-gear drive, not reversible by mast torque; Non-slip, ductile iron mast clamps; Large drive plate for masts up to 3 in. dia.; Heat-treated steel gear train, hardened driveshaft; Prop-pitch style torque plate; Fits inside most popular towers and mates to standard towers and rotator plates; Motor-mounted digital pulse switch for accurate, closed loop control and heading display. **Specifications:** 35 sq. ft. wind area; 1800 lbs. vertical load; 1.75–3.125 in. mast size; 55-270 second rotation speed; 28 to 42V DC motor 0.1/0.5 degree travel resolution; 110/ 220V AC, 50/60Hz input; Requires two 4-wire runs of rotor cable. Dim: 15.75"h total, 9.75"h rotor; 42 lbs..... **\$1598.99**



## Channel Master®

### 9521A Light Duty Rotator



**Drive Unit:** Handles small to medium-sized VHF/UHF Ham antennas and TV antennas. One-piece cast aluminum housing; Heavy-duty rotator motor, three wire control; Precision-cut gear system; Built-in steel thrust bearing; Wind-tested brake pad; Durable powder-coated finish.

**Control Unit:** Gives direct access via channel number or compass heading. Compatible with most remote controls. Separate infrared remote controller; 69 channel programmable memory; Auto-synchronization for accuracy..... **\$99.99**



## ECG®

### U-105 Light-duty Rotator

Long life, precision cut, hardened steel gears in a rugged, one-piece, cast aluminum housing. Large bearing surfaces and a reinforced mast for lateral load support. Ball bearings handle the vertical thrust load. Plenty of torque – easily handles the largest TV/FM and medium amateur VHF/UHF antennas. Built to take high winds and weather extremes with a water tight, lubricated seal. Smooth, quiet operation and the automatic control accurately shows direction..... **\$69.99**  
**Control Unit:** 120 VAC input and 18 VAC output voltage via 3-wire cable to rotator. Dim: 7" w x 5.875" d x 2.375" h

**Rotator Unit:** 360° rotation in 70 seconds. Torque of 8 ft.-lbs.; 100 lb. max. vertical load; 1.125" to 2" O.D. support mast; 10 lbs.

**U-106 Light-duty Rotator** – Similar to U-105 but with Presets and Infrared remote .. **\$89.99**

**TB-105 Thrust Bearing** – For U-105/106 providing extra support and strength. Ball bearing design also relieves stress from varying wind loads on the rotator drive and bearing. **\$18.99**





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**EASY UP**

"the Solution for Mounting  
Smaller Antennas"



Easy-Ups are heavy-duty and self-supporting; made out of 1-1/4 in. tubular steel with triple corrosion protection inside and out. Double embossed collars with six locking screws hold masts up to 1-3/4 in. Legs extend to any rafter spacing. Completely assembled and includes a pitch pad kit and lag screws.

**EZ 48-3ABX** - 3 ft. high, 8.5 lbs..... **\$49.99**

**EZ 48-5ABX** - 5 ft. high, 12 lbs..... **\$69.99**

**EZ 5-16** - 5 ft. 16 gauge steel mast\*... **\$16.99**

\*Store Pick-up only

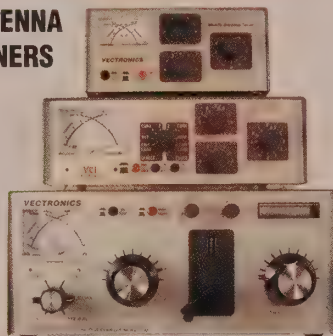
**EZ 29-24S** HD Double-strap Chimney Mount Includes two "Y" type mounting brackets and 24 ft. of stainless steel strap..... **\$29.99**

**EZ 30-24** - Deluxe wall mount with third support leg..... **\$39.99**

**EZ 31** - H-D adjustable eave mount.... **\$34.99**

**VECTRONICS**

**ANTENNA  
TUNERS**



**VC-300M** Mobile Tuner (top) - Compact, light-weight for mobile or base. Tunes mobile whips, verticals, dipoles, inverted Vs, beams - anything fed by coaxial cable. Covers 1.8-30 MHz at 300W continuous power. The dual-movement Cross-Needle meter monitors RF power output and SWR. Dim: 7.25" w x 3.5" h x 8.75" d; 2.5 lbs..... **\$129.99**

**VC-300DLP** (middle) - Matches any antenna. Full 1.8-30 MHz coverage and rated 300W PEP, 200W continuous power (150W on 1.8 MHz); Continuous rotation capacitors and 12-position switched inductor; Peak reading backlit Cross-Needle Meter; Built-in 8-position antenna switch and dummy load. Dim: 10.25" w x 9.5" d x 3.5" h; 3.4 lbs..... **\$169.99**

**HFT-1500** (bottom) - Matches any antenna. Full 1.8 to 30 MHz coverage and rated 2KW PEP, 1KW continuous. Three continuously variable components: two 4.5kV capacitors and a crank driven roller inductor with digital turns counter; Lighted Cross-Needle SWR/Wattmeter and 20-segment Digital Bargraph; Built-in 6-position antenna switch and 4:1 balun. Dim: 12-1/2" w x 5-1/2" h x 12" d; 10 lbs..... **\$439.99**

**SGC**

**Smartuners™**

Automatic  
Antenna Couplers

**Stop tuning, start talking.**



**Smartuners™** are the most versatile and reliable automatic tuning antenna couplers available. Using power levels from 1.5 to 500 Watts and with frequency ranges spanning the HF bands from a single antenna, they provide all-purpose automatic tuning ideal for base, mobile or portable operation. Just provide 12V, connect to transceiver, antenna and ground, and get on the air with minimum SWR.

Visit [sgcworld.com](http://sgcworld.com) for a detailed review of the Smartuner family, and find the right one for your needs. **Stop tuning, start talking.**

**54-14 SG-230 Original Smartuner™**

Covers 1.8 to 30 MHz and rated at 200 Watts.

Dim: 16.2" l x 12.2" w x 3.2" h; 8 lbs..... **\$499.99**

**54-15 SG-235 High Power**

Covers 1.8 to 30 MHz and rated at 500 Watts.

Dim: 16.2" l x 12.2" w x 3.2" h; 8 lbs..... **\$1099.99**

**54-18 SG-237 General Purpose Smartuner™**

Covers 1.8 to 60 MHz and rated at 100 Watts.

Dim: 9" l x 7" w x 1.5" h; 2 lbs..... **\$299.99**

**54-22 SG-239 Budget Smartuner™**

Covers 1.8 to 30 MHz and rated at 200 Watts.

Dim: 7.5" l x 6" w x 1.9" h; 2 lbs..... **\$195.99**

**54-25 MAC-200 Master Antenna Controller** - Operates as your base station control center, eliminating additional switching and tuning. With two built-in computers, using Smartuner™ technology, the MAC-200 can select and tune up to 5 different balanced or unbalanced antennas automatically in less than 2 seconds. The 168 built-in memories can instantly recall previous settings, allowing retuning in less than 10 milliseconds. Convenient meters on the front panel monitor your power and SWR. Covers 1.8 to 60 MHz using 1.5 to 200 Watts. Dim: 8.5" l x 6.5" w x 3" h; 5 lbs..... **\$265.99**

**MFJ** ANTENNA TUNERS



9982



998

**9982 Continuous Carrier™ Antenna Tuner** - Handles 2500 Watts continuous output on all modes and all HF bands 1.8 to 30 MHz into most unbalanced antennas. Features: Wide matching range; 6-position antenna switch; New 4-core balun; Balanced line feed-thru Insulator; 1500W air-cooled Dummy load; True peak and average lighted Cross-Needle SWR/Wattmeter; 6:1 reduction drives with detailed logging scales; 3-digit turns counter; Extra large knobs and fast tune crank. Uses a roller inductor edge wound from thick .06-inch silver-plated solid copper strap with dual silver-plated compression wheels and high-current, 1000 pF and 500 pF air variable capacitors. Dim: 13.75" w x 7" h x 16" d; 15 lbs..... **\$649.99**

**998 Intellituner™** - Covers 1.8 to 30 MHz, rated at 1500W SSB/CW. Ultra-fast automatic tuning matches impedance from 12 to 1600Ω using MFJ's exclusive *IntelliTune™*, *AdaptiveSearch™* and *InstantRecall™* algorithms, and over 20,000 *VirtualAntenna™* memories. Key your transmitter and *InstantRecall™* determines whether that frequency has been used before. If so, tuning is instantaneous. If not, an algorithm measures the impedance, selects the necessary components, and then fine-tunes the SWR. If the antenna impedance is outside the tuner's measurement range, *Adaptive Search™* measures the frequency and determines relevant component values for fast tuning. MFJ's *Amplifier Bypass Control™* (requires interface cable), provides safe tuning. On initiation, any in-line amplifier is bypassed. Next, a low-power CW tuning carrier from your transceiver is keyed. When tuning is complete, your transceiver reverts to its prior power and mode, and re-enables the amplifier. If a match better than a pre-set amplifier SWR trip point cannot be found, the amplifier stays bypassed. A Cross-Needle SWR/Wattmeter displays 300/60W or 3000/600W forward and reflected full-scale power ranges. A two-line, 16-character backlit LCD meter displays SWR, forward/reflected power, frequency, antenna selected, an autoranging bargraph power indication, and the final matching inductor and capacitor values. A memory system provides four antenna selections for each of the two switchable rear panel antenna connectors. A rear binding post for end-fed long wire antennas, balanced line antennas require an external 1.5kW 4:1 balun (MFJ-912). Requires 10-15VDC @ 1.3 amps. Dim: 13" w x 4" h x 15" d; 9 lbs..... **\$649.99**



# MFJ ANTENNA TUNERS



902



989D



993B



991B/994B

All MFJ products come with a **No Matter What™** One-year Limited Warranty. Not including kits, books or software.

**MFJ...**  
the World Leader in  
Amateur Radio Accessories

**902 Tiny Travel Tuner** – Only 4.5" w x 2.25" h x 3" d, but rated for 150W. Tunes nearly any coax-fed or random length wire antenna for 80-10M. Perfect for "take along" rigs like IC-706MKII-G, FT-100D, TS-50S, QRP rigs and others with built-in SWR meter ..... **\$99.99**

**945E Mobile Tuner** – Covers 1.8–30 MHz plus 6M and rated at 300W PEP. Matches coaxial cable only. Extends mobile antenna bandwidth and eliminates having to stop and adjust the whip length when making frequency changes. Lighted cross-needle SWR bridge and power meter with 50/300 & 5/30W ranges. Dim: 8" w x 2" h x 6" d. **\$119.99**

**941E Versa Tuner II** – Covers 1.8–30 MHz and rated at 300W PEP. *Matches everything!* – coaxial fed dipoles, vees, whips, verticals, beams, random wires, balanced lines. Built-in 4:1 balun. Lighted cross-needle SWR/power meter with 300/50W and 30/5W ranges. 8-position antenna selector for 2 coax lines, random wire or balanced line or an optional ext. dummy load. Dim: 10.625" w x 2.875" h x 7" d **\$129.99**

**934 Antenna Tuner/Artificial Ground** – Makes a random wire an effective antenna. Combines best features of 941E and 931 into one. Full-featured 1.8–30 MHz, 300W tuner with cross-needle meter and ground matching knob that lets you switch in inductance to bring an attached random length wire to a low impedance current point, forming an artificial ground. Dim: 10.625" w x 3.5" h x 7" d ..... **\$199.99**

**948** – All the features of the 941E except it has a larger lighted peak reading cross-needle SWR/power meter ..... **\$149.99**

**949E Deluxe Versa Tuner II** – Same power, tuning and switching capability as the 941E with a larger, lighted peak or average reading cross-needle SWR/wattmeter. *PreTune™* allows off-air tune-up into a built-in dummy load. Dim: 10.625" w x 2.875" h x 7" d ..... **\$169.99**

**969 Deluxe Versa Tuner II** – Covers 160–6M and rated at 300W. Features a roller inductor coil with a spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 30/300W ranges. Tunes coaxial cable, random wire or balanced feedline, has a built-in 4:1 balun. *QRM-Free PreTune™* allows off-air tune-up into a built-in 300W dummy load. Convenient 8-position antenna selector switch. Dim: 10.5" w x 3.875" h x 9.5" d ..... **\$199.99**

**962D Versa Tuner III** – Covers 1.8–30 MHz and rated at 1.5KW PEP. Matches coaxial fed antennas, random or balanced line. Has built-in 4:1 balun and roller inductor. Lighted peak/average cross-needle SWR/wattmeter with 200/2000W ranges. 6-position selector for 2 coax lines (direct or thru). Dim: 10.5" w x 3.9" h x 15" d ..... **\$279.99**

**986 Differential-T Tuner™** – Covers 1.8–30 MHz, rated at 3KW PEP. Uses a broadband T-network with roller inductor and differential capacitor. Tunes most antennas using only two knobs. Lighted peak or average reading cross-needle SWR/wattmeter with 200/50W and 2000/500W ranges. Inductor spinner knob, 3-digit turns counter, 6-position antenna selector, external dummy load switch, 4:1 balun. Dim: 10.75" w x 4.5" h x 15" d ..... **\$319.99**

**989D Versa Tuner V** – Covers 1.8–30 MHz, rated at 1.5KW PEP with heavy-duty components. Matches nearly every type of antenna. Roller inductor with spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 200/2000W ranges. Built-in 300W dummy load, heavy-duty 4:1 balun and 6-position antenna selector switch. Dim: 10.75" w x 4.5" h x 15" d. **\$349.99**

**993B IntelliTuner™ 300W Auto Tuner** – Measures, calculates, then automatically tunes most balanced and unbalanced antennas. Cross-needle meter shows forward and reflected power and SWR. Digital LCD shows antenna selection, frequency, and more. 20,000 tuning memories for ultra-fast operation. Manual tuning possible without transmit. Includes 4:1 current balun. Matches 6 to 3200 ohms @ 150W CW/SSB (or 6 to 1600 ohms @ 300W). Audible SWR indicator; two-position antenna switch. Dim: 10" w x 2.75" h x 9" d ..... **\$249.99**

**991B IntelliTuner™ 150W Auto Tuner** – Similar to 993B, rated 150W SSB/100W CW. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 6 to 3200 ohms ..... **\$209.99**

**994B IntelliTuner™ 600W Auto Tuner** – Rated 600W SSB or 300W CW. 10,000 memories. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 12 to 800 ohms. Low power tuning with any external amp bypassed ..... **\$339.99**



974HB



931

**974HB Balanced Line Tuner** – Matches transceivers to virtually any balanced-line fed antenna. Illuminated Cross-needle meter shows both peak and average forward and reflected power, and SWR. Matching Range: 12–2000 ohms from 1.8–54 MHz. Power: 300W SSB PEP, 150W CW. Features a fully balanced wide range T-Network using four gear driven 1000V air variable capacitors and a high-Q air wound tapped inductor for 80–10 meters with separate inductors for 6 and 160 meters. A 1:1 current balun is incorporated in the low impedance input side to convert the balanced T-Network to unbalanced. Rear connectors for coaxial and single or two wire feedlines. Dim: 7.5" w x 6" h x 8" d .... **\$199.99**

**974B Balanced Line Antenna Tuner** – Same as 974HB but 3.5–54 MHz (no 1.8 MHz) .... **\$179.99**

**931 Artificial Ground** – Establishes a proper ground when used with random length wire antennas. It resonates an additional length of wire to act as a tuned counterpoise. Easier tuning, improved efficiency and radiation pattern, and reduced TVI/RFI. Covers 1.8–30 MHz and handles 100W. Dim: 7.5" w x 3.5" h x 7" d. Not for coax fed antennas. **\$109.99**



903

906

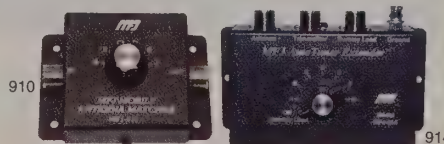
**906 6 Meter Antenna Tuner/Meter** – Low SWR with almost any 50-60 MHz coax fed antenna. Lighted Cross-Needle SWR/Wattmeter shows SWR, forward, reflected power on 300/60 and 30/6W ranges. Handles 100W CW, 200W SSB PEP. Built-in bypass switch. Dim: 8" w x 2.5" h x 3" d ..... **\$99.99**

**903 6 Meter Antenna Tuner** – Similar to 906. Less meter and bypass switch ..... **\$69.99**



**921 144/220 MHz Antenna Tuner/Meter** – Dual band VHF tuner covers 2M/220MHz and matches a coax fed antennas over a wide range of impedances. Lighted SWR/Wattmeter measures SWR and power in two ranges; 300 or 30W. Rated at 200W. Dim: 8" w x 2.5" h x 3" d ..... **\$89.99**

**924 440 MHz Antenna Tuner/Meter** – Similar to 921 but 440 MHz band only ..... **\$89.99**



910

914

**910 Mobile Antenna Matcher** – Get more power into your HF antenna. Matches HF mobile antennas 80-10M. Dim: 2.5" w x 2.5" h x 1.5" d ... **\$29.99**

**914 Auto Tuner Extender** – Transforms your antenna impedance by as much as 10 times! Puts any antenna into the range of your automatic or manual tuner. Covers 160-10 Meters, handles 300W, has bypass position ..... **\$79.99**

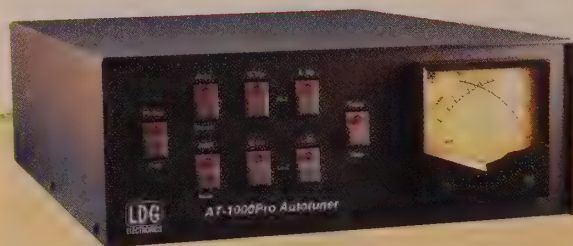
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# LDG

## ELECTRONICS

### The #1 Line of Autotuners!



#### AT-1000Pro

##### HF/6M Automatic Antenna Tuner

Building on the success its flagship AT-1000, LDG Electronics has refined and expanded its 1KW tuner. The new AT-1000Pro has an Auto mode that will automatically start a tuning cycle when the SWR exceeds a preset limit. There are provisions for two antennas and for each antenna there are 2,000 memories that store tuning parameters for almost instantaneous tuning when you transmit on or near a frequency you've used before. *Just key and it tunes!*

- Continuous coverage: 1.8 to 54 MHz (includes 6 meters).
- Power Rating: HF (1.8–30 MHz): 1000W SSB, 750W CW, 500W Digital (RTTY, Packet, etc.); 6 meters: 250W any mode.
- Operates at any power level between 5–1000W peak RF input.
- Relay protection software prevents tuning at greater than 125W and greater than 75W into a 3:1 SWR load.
- Cross-Needle SWR/Wattmeter with selectable 100W/1000W ranges.
- Soft touch buttons for easy operation.
- Tuning time 4 seconds, or under 0.2 seconds when operated near a frequency with stored parameters.
- Tunes just about any antenna between 6 to 1000Ω (approximately 10:1 SWR, 3:1 on 6 meters).
- Supplied with 6 ft. power and ICOM/YAESU interface cables.
- Requires user supplied power, 11–15V DC @ 1A.
- Dim: 9.5" w x 3.5" h x 13" d
- Weight: 5.2 lbs
- **\$549.99**



#### AT-200Pro

##### Designed for today's 200W Class Transceivers

The AT-200Pro features LDG's new "3-D memory system" allowing up to eight antenna settings to be stored for each frequency. Handles up to 250W SSB or CW on 1.8 to 30 MHz and 100W on 54 MHz (6 meters).

Rugged and easy-to-read LED bar graphs show power and SWR, and a function key on the front panel allows you to access data such as mode and status. All cables included. Dim: 8.5" w x 2.0" h x 6" d; 2 lbs ..... **\$229.99**



#### AT-100Pro

##### Automatic Antenna Tuner

This desktop tuner covers all frequencies from 1.8 to 54 MHz (including 6 meters), and will automatically match your antenna in no time. It features two-position antenna switch, allowing you to switch instantly between two antennas. The AT-100Pro requires just 1W for full operation, but will handle up to 125W (100W on 6 meters). The AT-100Pro includes over 2,000 memories for each antenna, automatically storing the tuning configurations for each frequency and band as they are used. Dim: 7.5" w x 5.5" h x 2.0" d; 1.5 lbs ..... **\$199.99**



#### KT-100

##### Automatic Antenna Tuner for Kenwood Transceivers

If you have an AT-300 compatible Kenwood radio, you can simply plug the KT-100 into your transceiver with the provided cable; the interface powers the tuner, and the TUNE button on the radio begins a tuning cycle. Provides 2,000 memories for instant recall of the tuning parameters for your favorite band and frequencies. Covers 1.8 to 54 MHz, handles 125W SSB/CW (100W on 6M). Dim: 6.5" w x 1.25" h x 6.5" d; 2 lbs ..... **\$199.99**



AT-897

AT-7000

#### AT-897

##### Automatic Antenna Tuner for FT-897

If you own a Yaesu FT-897 and want a broad range automatic antenna tuner, look no further! The AT-897 mounts on the side of your FT-897 just like the original equipment. We even added the ability to mount the "feet" on the side of the tuner so when you are transporting your rig by the handle, you can safely set it down without scratching the case. The AT-897 takes power directly from the CAT port of the FT-897 and provides a second CAT port on the back of the tuner so if you are using another CAT device, hooking it up couldn't be easier. The FT-897 shown attached to the tuner is not included. Dim: 1.5" w x 3.25" h x 11.5" d; 2 lbs ..... **\$199.99**

#### AT-7000

##### Ideal Tuner for IC-7000 and other ICOMs

It covers all frequencies from 1.8–54 MHz (including 6 meters), and will automatically match your antenna in a flash.

Requires just 0.1W for operation, but will handle up to 125W (100W on 6 meters), making it suitable for everything from QRP (IC-703PLUS) to a typical 100W ICOM transceiver.

Tune with the AT-7000 or use your radio. Includes over 2,000 memories, uses latching relays, tuning range is 4–800Ω, powered by your radio. Includes ICOM interface cable. Note: The IC-7000 shown on top of the AT-7000 is not included. Dim: 6.5" w x 1.5" h x 6.5" d; 1.5 lbs ..... **\$169.99**

**LDG Autotuners include All Cables Ready to Go!**



# Autotuners & Accessories



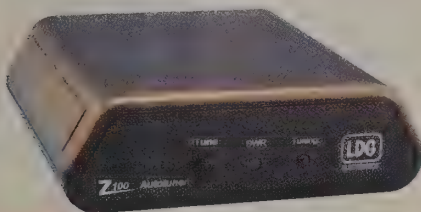
## Z-11Pro

The original portable Z-11 was one of LDG's most popular tuners, accompanying adventurous hams to their backyards or to the ends of the earth.

Now meet the Z-11Pro, everything you always wanted in a small, portable tuner designed from the ground up for battery operation.

Only 5 x 7.7 x 1.5 in. and weighing only 1.5 pounds, it handles 0.1 to 125 watts (100W on 6 meters), making it ideal for both QRP and standard 100 watt transceivers from 160 - 6 meters.

With 8,000 memories in LDG's exclusive "3-D Memory" array, the Z-11Pro uses LDG's state-of-the-art processor-controlled Switched-L tuning network. It will match dipoles, verticals, inverted-Vs or virtually any coax-fed antenna. With an optional LDG balun, it will also match long wires or antennas fed with ladder-line..... **\$179.99**



## Z-100

Designed from the ground up to provide the 100W power handling you asked for in a small, lightweight package, perfect for portable as well as sitting on your desk in the shack!

The Z-100 will tune with 0.1 to 125W (50W on 6 meters), making it an excellent choice for almost any radio or operating style. Backpackers and QRP operators will appreciate the latching relays. Power can be removed from the tuner once you have tuned. Additionally, when the tuner is not tuning, it draws nearly zero amps.

Additionally, the Z-100 features 200 fast memories which will decrease tuning time up to 95%! Dim: 5.5"w x 1.5"h x 5.25"d; 14 oz..... **\$149.99**

**LDG Baluns** - Designed to allow easy interface of ladder line antennas and long wires to the LDG line of Automatic Antenna Tuners. It may be used with any of your long, random, or ladder line antenna projects. Usable with tuners other than LDG. Covers 1.8 to 30 MHz, up to 200W.



Dim: 2.5"w x 5"h x 1.25"d; 6 oz.  
**RBA-1:1** 1:1 Current balun..... **\$30.99**  
**RBA-4:1** 4:1 Voltage balun..... **\$30.99**



## FT-METER

### Multi-Function Meter for Yaesu's FT-857 & FT-897

The FT-857 and FT-897 are wonders of compactness. These do-everything, go-anywhere transceivers are being used more and more and users really appreciate LDG's extra metering capability.

The FT-Meter presents a highly readable 2.5 inch meter face with calibrated scales for Signal strength and Discriminator reading on receive, Power output, SWR, Modulation, ALC action and Supply voltage on transmit. LED back-illuminated in cool, high-visibility blue, easily visible from anywhere on your desk or dash. For illumination it requires an external 12V DC source. Rear on/off switch for the light and calibration and brightness adjustments. Fully assembled and ready to plug into the radio. Dim: 3.6"w x 3"h x 2.6"d; 0.5 lbs..... **\$49.99**



## DM-7800

### Dual Meter System for the ICOM IC-7800

The advanced virtual LCD meters on ICOM's IC-7800 transceiver do a great job, but sometimes a real analog meter is desired.

LDG's DM-7800 Dual Meter system provides two 4.5 in. meters, one for the MAIN receiver and one for the SUB receiver. Seven individual scales indicate S-Meter, Id, Po, SWR, Comp, Vd and ALC. The IC-7800 menu lets you select functions for each meter. Additionally, the DM-7800 and the virtual meters on the radio can work together. For example, you can display SWR on the radio's meter and power output on the DM-7800; on receive, the S-meter reading is indicated.

The lush meter faces are back-illuminated LED in cool, high-visibility blue and draw only 20 to 60 mA depending on the brightness setting. Requires an external 12V DC @ 100 mA source (not supplied). There are separate calibration adjustments for MAIN and SUB, and a brightness control on the back. The textured gray case is a great match for the IC-7800. Includes a 3 ft. long interconnecting cable. Dim: 9.7"w x 4.0"h x 4.0"d; 1 lb..... **\$179.99**

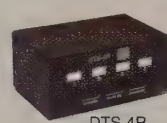
## DTS-SERIES

### Antenna Switches

Tired of that tangled mess of coax and pigtailed in your shack? Always worrying about whether you set the ground switch on your antenna before you left your shack? LDG's new DTS Series antenna switches are for you. Instantly switch your rig between 4 to 6 antennas with the press of a button. Safety features prevent "hot switching." Auto-grounding when you shut your rig down. Purchase the additional remote control and put the DTS series switch anywhere indoors and operate it from your desk. They cover 1.8-54 MHz and handle up to 1500W of RF power on HF (250W on 6M), and can be used with any coax-fed antenna. Requires 11-15VDC.



DTS-4



DTS-4R

**DTS-4** 4-position,

Dim: 7.5"w x 2.5"h x 4.5"d; 1 lb .. **\$79.99**

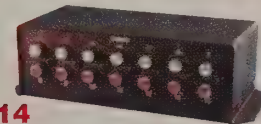
**DTS-4R** Remote control for DTS-4..... **\$39.99**



**DTS-6** 6-position,

Dim: 9.5"w x 2.5"h x 5"d; 1 lb .... **\$99.99**

**DTS-6R** Remote control for DTS-6.. C/O **\$49.99**



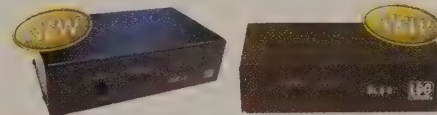
## RCA-14

### Transceiver Breakout Box

A convenient breakout box for the accessory jacks on most popular transceivers. It comes with cables with the right DIN plugs, and all the outputs are standard RCA jacks. You simply plug the RCA-14 into your radio's accessory jacks, and all your ports are right there at your fingertips; just plug and play, one function or all or them, makes no difference. And you can change things around as often as you like; it's as simple as swapping out an RCA plug.

The RCA-14 comes with a DIN-13 cable, a mini DIN-6 and a mini DIN-8. The DIN-13 cable breaks out the functions to RCA jacks 1-13, while the mini DIN-6 goes to RCA 1-6, and the mini DIN-8 goes to RCA 7-14. You can use the DIN-13 or the mini DIN-6 and/or 8, depending on your radio.

The RCA-14 is compatible with: ICOM 703, 706, 718, 746, 756, 7000 and 7800; YAESU 817, 857, 897 and 840; KENWOOD 480, 570, 2000; TEN-TEC Orion. Includes 5 interface cables for popular radios. Dim: 6.5"w x 1.5"h x 3.5"d; 1 lb. ... **\$59.99**



**ALK-2** Audio/Linear/Key Switch - Pushbutton electronically switches a common 1/8" stereo jack and stereo/RCA jacks between two other sets of 1/8" stereo/RCA jacks. LED indicator. Requires 12VDC @ 100mA. Dim: 6.5"w x 1.5"h x 3.5"d; 1 lb... **\$49.99**

**SLS-2** Microphone Switch - For modern transceivers with RJ-45 mic connectors. It features two switched and one common jack in the back. Front panel push button switches one mic between two radios, or one radio between two mics; an LED indicates the selection. Requires 12 VDC @ 100 mA. Dim: 6.5"w x 1.5"h x 3.5"d; 1 lb..... **\$59.99**



**Two-Year Warranty**

LDG was the first company with a "No Questions Asked" two-year Warranty on ALL of their products, the first company to include All Cables with their autotuners, and the first company with 3-D Memory in their autotuners.

[www.ldgelectronics.com](http://www.ldgelectronics.com)



LDG Automatic Antenna Tuners  
Meters & Accessories



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## ICOM ANTENNA TUNERS

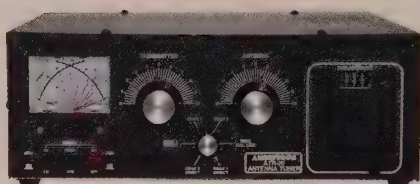


**AH-4** Automatic Antenna Tuner – Covers 3.5–54 MHz using a 23 ft. or longer wire, or 7–54 MHz with optional AH-2B Antenna Element. Weather-resistant construction enables operation in all conditions. Rated 120W PEP, requires only 5–15W for tuning. For use with ICOM HF transceivers; just push the [TUNER] switch and it tunes to minimum SWR in less than 2.5 seconds. 45 memories store settings to provide one-second retuning. Supplied with mounting kit, 16 ft. control and coaxial cables. 13.8 VDC. Dim: 6.7" w x 2.7" h x 9" d ..... **\$259.99**

**AT-180** Automatic Antenna Tuner – Provides reliable coax matching from 1.9–54 MHz over an impedance range of 16.7–150Ω (HF) and 20–125Ω (50 MHz). 70 channel preset memories and "automatic tuner on" function when with the IC-7000, IC-703/IC-706 series or IC-718. Rated at 120W and requires about 8W to activate. 13.8 VDC. Dim: 6.5" w x 2.3" h x 8.9" d; 5.3 lbs ..... **\$369.99**

**AH-2B** Antenna Whip – Covers 7–54 MHz when used with the AH-4 tuner. Includes hardware for mounting to a tow bar, 8.2 ft. long ..... **\$389.99**

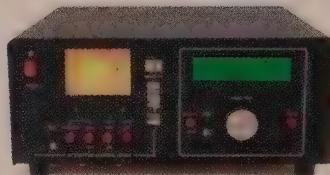
## AMERITRON LEGAL LIMIT ANTENNA TUNER



**ATR-30** – Covers 1.8–30 MHz, including MARS and WARC. Designed for sustained RF output over 1500W CW and 3000W SSB, also 160 Meters. Uses High-Q, high-current, edge-wound, arc-free roller inductor with heavy duty 500pf capacitor in a T-match network. Matches most antennas using either coax or balanced feedlines. Illuminated Cross-needle, peak-reading 300/3000W SWR/Wattmeter. Includes: 3-core choke balun, 6-position antenna switch, 6:1 vernier reduction drives and crank with turns counter. Requires 12VDC or internal 9V battery. Dim: 13.25" w x 5.6" h x 17.5" d ..... **\$559.99**

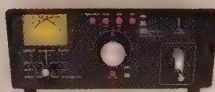
**ATR-20** Antenna Tuner – Looks and features same as ATR-30, but lower power rating. Handles 1.2KW PEP SSB; slightly less on 160 Meters. Dim: 13.5" w x 5.5" h x 13.5" d ..... **\$429.99**

## PALSTAR ANTENNA TUNERS



**AT-AUTO** Automatic Antenna Tuner – Covers 160–10M, rated at 1500W single tone. Continuously variable components using a custom built differential capacitor and ceramic body roller inductor tuned by two high-speed, microprocessor-controlled stepper motors. A 2-line large character display shows the status of the antenna feed, frequency, and up to 250 channels of memory each for coax and balanced feeds. An active Peak/Peak Hold wattmeter allows you to measure and display forward power, reflected power, and SWR simultaneously on a cross-needle 300/3000W meter. Data interface for recent Icom, Kenwood and Yaesu transceivers, allowing the tuner to automatically follow band and frequency changes. For other radios, just key the transmitter for less than a second, and it will tune-up for that frequency automatically. Dim: 12.5" w x 5.5" h x 16" d, 25 lbs ..... **\$1295.99**

### Manual Tuners



AT-1KP  
*Palstar Quality,  
Innovative Design*



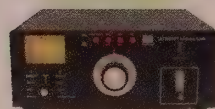
AT-2K  
*Made in the U.S.A.*



AT-4K  
*Peak & Peak Hold dual  
Cross-Needle metering*



AT-5K  
*Conservative Ratings*



AT-1500DT  
*Powdercoated Front  
Panel and Top Cover*



BT-1500A

**AT-1KP** – 160–6M, 1200W SSB. Differential capacitor tuning, balanced and unbalanced output; Roller inductor; 4:1 high power balun; Peak/Peak Hold metering. Dim: 10.5" w x 4.5" h x 11" d, 8 lbs. **\$469.99**

**AT-2K** – 160–6M, 2000W. Smaller roller inductor for 6M, relay-switched toroid adds extra inductance for 160M. Lower minimum capacitance and higher maximum capacitance. 6 position antenna selector switch. Peak/Peak Hold 300/3000W metering; 4:1 balun; Dim: 5" h x 14.5" w x 13.5" d ..... **\$529.99**

**AT-4K** – 160–10M, 2500W single tone continuous. Unbalanced/balanced output; T-matching network with 1:1 unbalanced-to-balanced transformer in the INPUT; Peak/Peak Hold cross-needle metering. Large value variable capacitor; silver plated roller inductors; Switched antenna inputs. Dim: 15" w x 7" h x 16" d, 20 lbs .... **\$895.99**

**AT-5K** – 160–10M, 3500W single tone continuous. Balanced OUTPUT, 5KW balun at the INPUT; Large plate capacitors; 10A roller inductor; Dim: 16" w x 8" h x 18" d, 30 lbs.. **\$1195.99**

**AT-1500DT** – 160–10M, 1500W PEP. Differential tuner. Tunes balanced and unbalanced lines; Ceramic roller inductor; 4:1 balun; Peak/Peak-Hold metering; 6-position antenna switch; Dim: 12.6" w x 4.5" h x 12" d, 12 lbs ..... **\$495.99**

**BT-1500A** – 160–10M, 1500W PEP. Double-L network balanced tuner. Two tandem roller inductors and dual-section capacitor; Peak/Peak Hold cross-needle metering. **\$695.99**

For more detailed info go to: [www.palstar.com](http://www.palstar.com)

## The Better RF Company

### TUNE CONTROLS

Tune up Control for Yaesu FT-100, FT-450, FT-950, FT-857 and FT-897

Controls the radio's [TUNE] button function to provide a low power output for tuning, adjusting an antenna, checking SWR, etc., in any mode. Interface cable included. No radio modification. Provides an interface between your YAESU transceiver and ICOM type accessories such as ICOM antenna tuners, tuners from other manufacturers and screwdriver antenna controllers ..... **YAETUNECONT \$44.99**



7000 TUNE CONTROL 706 TUNE CONTROL

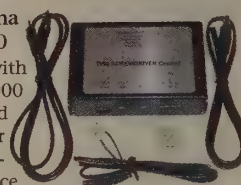
**Tune up Control for IC-706/718** – Plugs into the Molex connector on rear of radio. Converts radio's TUNER/CALL button function to TUNE MODE which limits RF output to 8-10W and produces a sidetone through the speaker. When finished, it reverts back to previous mode and power. No switching to AM or RTTY or holding the PTT. Works 160–6M (not 6M with the original IC-706) ..... **706TUNECONT \$32.99**

**Tune up Control for the IC-7000** – Activates the [TUNE/CALL] button on your IC-7000 to tune an antenna or an external tuner while displaying the SWR on the radio. Senses the voltage on a screwdriver antenna motor for automatic on and off of the tune mode. User selectable tune-up power can be a constant 30W or pulsed at a 50% duty cycle. No modifications. The supplied cable connects to the radio's CI-V jack. It utilizes the CI-V data port and the tuner port for SWR readout, frequency and the radio's preprogrammed sequencing of the tuner port. Last frequency memory. .... **7000TUNECONT \$54.99**

### SCREWDRIVER ANTENNA CONTROL

Screwdriver Antenna Control for IC-7000

Integrates directly with the IC-7000, 7000 Tune Control and any screwdriver antenna. It automatically funds resonance with the push of the [TUNE] button on the IC-7000. Requires no connections or modification to the antenna or radio. Antenna SWR displays on the IC-7000 ..... **7000SCDRCONT \$84.99**



## PALSTAR ANTENNA ANALYZER

**ZM-30** – An automated micro-controlled SWR antenna analyzer with an 8-bit controller and precision low-power DDS signal generator. It also includes a self-calibrating reflectometer and displays SWR at selectable frequencies from 1–30 MHz. It measures: SWR, Impedance, Reactance, Inductors, Capacitors, Transmission lines, Stubs, Q, and Resonant frequency. There is a serial port for field upgradable software. Battery operation, take it right to the antenna. Durable, powder coated front panel. Dim: 3" w x 4" h x 2" d ..... **\$399.99**





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# MFJ SWR Analyzers

You can ensure your antenna system is giving you top performance by using an MFJ SWR Analyzer. They're completely portable test stations, featuring a Frequency Counter, RF signal generator, SWR Analyzer, RF Resistance and Reactance Analyzer, Coax Analyzer, Capacitance/Inductance Meter, and more.

You will no longer have to drag your rig (RF source) out into the yard. No more running in and out of the house or up and down the tower to make readings and adjustments. MFJ analyzers are self-contained and fully portable units, with built-in battery power and RF source so you can take it right to the antenna. One reading gives you a complete picture of your antenna, allows quick tuning adjustments on the spot.


- Simple Operation – just connect the feed line, set the bandswitch and tune the dial. All information is clearly displayed instantly on the large, easy-to-read, two-line LCD screen and side-by-side meters (259B/269).
- When tuning transmission lines or making up phasing harnesses for stacking antennas, you can quickly determine exact 1/4 or 1/2 wavelengths. You can also determine the velocity factor, coax cable loss, length of coax and distance to a short or open in coaxial cable.
- Read SWR, return loss and reflection coefficient at any frequency simultaneously, or inductance and capacitance at RF frequencies at a glance.

Powered by (10) AA Alkaline or Ni-Cad/Ni-MH rechargeable internal batteries (not included), or 110V with the MFJ-1312D adapter. For installed rechargeables batteries there is a built-in charger circuit that requires external 12VDC or the 1312D adapter. The 249B/259B have an SO-239 antenna connector, the 269 has a Type-N female and is supplied with a Type-N to SO-239 adapter. All metal cabinet. Dim: 6-3/4" h x 4" w x 2" d.

**259B SWR Analyzer** – Covers 1.8-170 MHz, two-line LCD screen and side-by-side meters ..... **\$269.99**

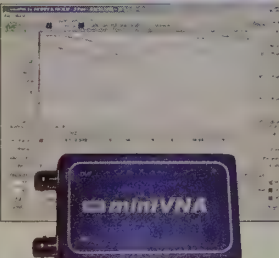
**249B SWR Analyzer** – Same coverage as the MFJ-259B but less analog meters. Reads SWR, true impedance magnitude and frequency (only) on the LCD panel..... **\$249.99**

**269 SWR Analyzer** – Has all the features of the 259B, plus it additionally covers 415 to 470 MHz. A CoaxCalculator™ feature calculates coax length in feet given coax length in electrical degrees and vice versa, and any velocity factor. Read Complex Impedance as series equivalent resistance and reactance (Rs+jXs) or as magnitude (Z) and phase (degrees), parallel equivalent resistance and reactance (Rp+jXp). Measure SWR and loss of coax with any characteristic impedance from 10 to over 600Ω, including 50, 51, 52, 53, 73, 75, 93, 95, 300, 450Ω. On the 415 to 470 MHz range, read SWR, return loss, reflection coefficient simultaneously, and cable loss in dB and match efficiency. Two-line LCD screen and side-by-side meters ..... **\$349.99**



**Software-Defined, PC-based HF/VHF Antenna Analyzer**

**MINIVNA** – Connects to your computer and antenna to display selected parameters on the PC's screen. Quickly analyzes any antenna over a user defined frequency range 0.1 to 180 MHz. PC display shows resonance, the SWR and return loss. Two markers can be placed within the shown frequency range to measure impedance, resistance, phase and other values at those points. Measure cable losses, cable length, transmission, bandwidth, quality of filters and more. Connect via USB 1.1 or 2.0 cable, or select RS-232 to use the miniVNA with a wireless Bluetooth® adapter. In this case, both the adapter and the miniVNA must be powered from an external source, and the computer must have a Bluetooth interface. This set-up enables remote measurements, for example, right at the base of an antenna. Software runs on Windows™ or Linux™ OS. BNC connectors. Dim: 3.5" h x 3.3" w x 1" d... **\$399.99**





**AntennaSmith™**  
Antenna Impedance Analyzer



- Full Color TFT LCD Graphic Display
- Covers 0.2 to 55 MHz
- SWR • Impedance (Z) • Reactance (r+jx)
- Reflection coefficient (ρ, δ) • Smith Chart

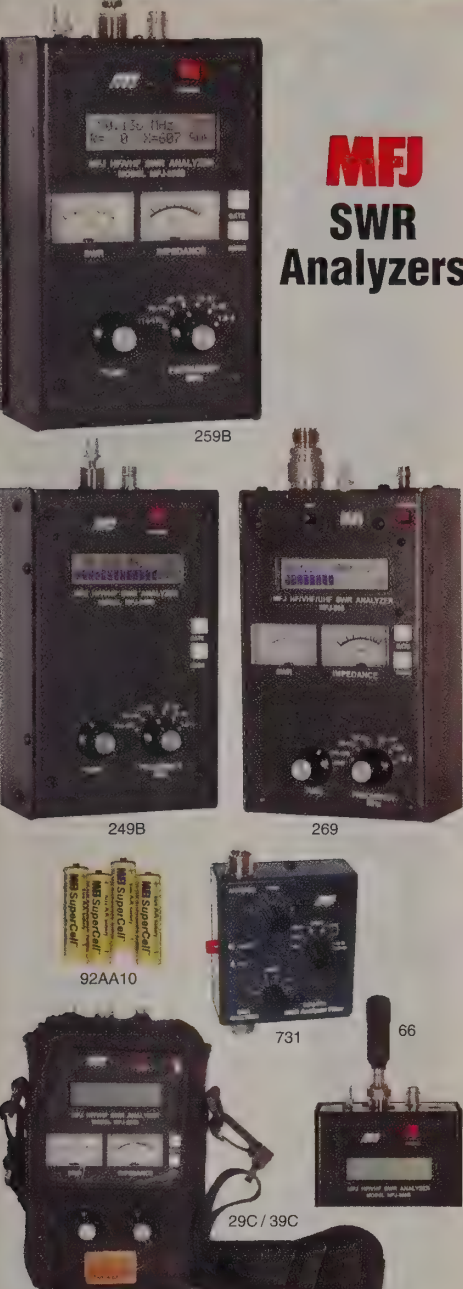
**Day/Night Always-Visible Display**  
The transreflective TFT LCD color display is brilliantly visible in direct sunlight.

**Full Graphics - Rapid update**  
Data graph updates every two seconds. Quickly set the start, stop or center frequencies to see the data as you want it. A tap on a button gives you a different parameter. Tap another button to store a graph to print later or to display as a reference while you optimize your antenna system. Instantly see the effect of a change!

**Adjustable Frequency Cursor/Generator**  
Quickly tune the cursor to check your antenna system at the desired frequency while looking at the big picture on a graph. The Direct Digital Synthesizer makes a great RF signal generator in the Synthesizer mode. Easily calibrate to WWV with 1 Hz frequency resolution.

**Rugged and Portable**  
Extruded aluminum case, (4) AA NiMH batteries for hours of field operation. A 12 VDC power supply/charger is included.

**Models in stock at our Milwaukee Location:**  
**TZ-900S** with SO-239 connector ..... **\$899.99**  
**TZ-900N** with Type-N connector..... **\$899.99**



- 29C Carrying Case** – Cushion and protects your 249B/259B. Tote it, wear it around your waist, over your shoulder, or clip it onto the tower. Back pocket holds dip coils and coax adapters. .... **\$24.99**
- 39C Carrying Case** – Fits the 269 ..... **\$24.99**
- 66 Dip Meter Adapter** – For grid dip operation. Set of two plug-in coils, covers 1.8-170 MHz..... **\$24.99**
- 92AA10 10 Pack "AA" NiMH Batteries**.... **\$29.99**
- 98 Accessory Pack** – Includes 39C case, 66 dip adapter and 1312D AC adapter..... **\$60.99**
- 98B Accessory Pack** – Includes 10 "AA" NiMH batteries, 39C case, 66 dip coils and AC adapter..... **\$93.99**
- 99 Accessory Pack** – Includes 29C case, 66 dip coils and 1312D AC adapter..... **\$60.99**
- 99B Accessory Pack** – Includes 10 "AA" NiMH batteries, 29C case, 66 dip coils and AC adapter..... **\$93.99**
- 99C Accessory Pack** – Includes 10 "AA" NiMH batteries and 1312D AC adapter ..... **\$45.99**
- 731 Tunable Measurement Filter** – Use with 249B, 259B or 269 for 1.8-30 MHz measurements in the presence of strong RF fields from nearby broadcast stations or other RF sources ..... **\$99.99**



**MFI**

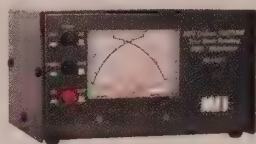
## SWR/POWER METERS



**864** (bottom) – Three band coverage: 1.8–60 MHz, 144 MHz and 440 MHz. Power Ranges: 30/300W forward and 6/60W reflected. Dual sensors allow connection to an HF and VHF/UHF rig at the same time. Monitor SWR and power simultaneously on the lighted Cross-Needle meter. Requires 12VDC for meter light. Dim: 7.25" w x 2.5" h x 2.25" d... **\$99.99**

**862** (center) – Covers 144, 220 and 440 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 5.75" w x 2.5" h x 2.25" d... **\$69.99**

**860** (top) – Covers 1.8–60 MHz. Ranges: 30/300W forward and 6/60W reflected power. Dim: 4.5" w x 2.25" h x 3" d... **\$59.99**



**815C** – Simultaneously reads true peak or average power and SWR simultaneously on a 3-inch illuminated Cross-Needle meter. Covers 1.8–30 MHz, has 300/3000W forward and 60/600W reflected power ranges. SO-239 connectors. Requires 12VDC. Dim: 6" w x 3.5" h x 4.5" d... **\$109.99**

**817C** – Same as 815C but for 144, 220 and 440 MHz bands, has 300/30W forward and 60/6W reflected power ranges. **\$119.99**



**812B** (right) – Indicates forward/reflected power on 144/220 MHz bands. Also, SWR 144 to 220 MHz, and field-strength 1 to 220 MHz. Power ranges: 30 & 300W. Dim: 4.5" w x 2.25" h x 3" d... **\$39.99**

**816** Toroidal Meter – Indicates forward and reflected power from 1.8–30 MHz. Power ranges: 30/300W. Dim: 4.5" w x 2.25" h x 3" d... **\$39.99**

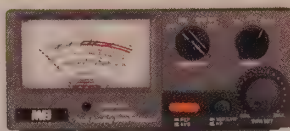
**844** VHF/UHF SWR/Power Meter (left) – Covers 144 and 440 MHz, rated up to 200W. Multi-colored meter shows SWR/Power on 15, 60, and 200W ranges. Great to take along for portable, HT or mobile rigs. Dim: 3.75" w x 3" h x 1.25" d... **\$79.99**



### 868 Giant SWR/Wattmeter

Measures an awesome 6-1/2 inches diagonally across the meter scale. Easy-to-read with large high contrast numbers. Covers 1.8 to 30 MHz and indicates true Peak or Average forward and reflected power and VSWR on 20, 200, and 2000W ranges. Uses 9V battery, 12V DC or 110V AC with MFI-1312D adapter. Power Saver™ circuit turns unit on only when RF power is being measured. Dim: 7" w x 5.5" h x 5" d... **\$149.99**

## GrandMaster™ Series



Four models with different frequency and power ranges. Easy-to-read 3.25" w x 1.25" h illuminated meter shows peak and average, forward and reflected power in three ranges. Dim: 7.5" w x 3.125" h x 4.25" d.

**870** (HF range) – 1.6 to 60 MHz.

Power ranges: 30/300/3000W + VSWR... **\$109.99**

**872** (HF/VHF range) – 1.8 to 200 MHz

Power ranges: 5/20/200W + VSWR... **\$109.99**

**873** (VHF/UHF range) – 125 to 525 MHz.

Power ranges: 5/20/200W + VSWR... **\$129.99**

**874** (HF/VHF/UHF range) – 1.8 to 525 MHz.

Power ranges: 5/20/200W + VSWR... **\$149.99**

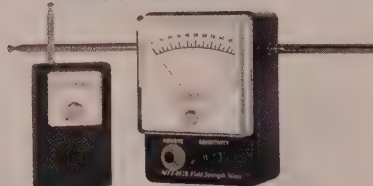
### 267 1.5KW Dry Dummy with SWR/Wattmeter

The 50Ω dry dummy load works DC to 60 MHz. Handles 100W for 10-min. or 1500W for 10-sec. The large, three-inch lighted Cross Needle meter reads SWR, forward and reflected power simultaneously. Reads PEP or average power on 300/3000W forward and 60/600W reflected power ranges, 1.8-54 MHz. Uses 12VDC for meter lamp. Dim: 4.5" w x 3.5" h x 10.5" d... **\$159.99**



**841** 144 MHz HT SWR/Wattmeter  
Connects directly in line between your HT and antenna. Read SWR up to 6:1 and power output up to 5W. A rear 3-position switch selects SWR, SWR set, or forward power. BNC connectors input/output. Dim: 2" w x 2.25" h x 1.5" d... **\$49.99**

## MISC. METERS



**801** Super Compact Field Strength Meter (left)  
Read Relative field strength from your antenna, measure antenna performance and discover how strong your antenna field is. Telescopic whip included. Its compact size fits in the palm of your hand. Dim: 2.375" w x 3.625" h x 1" d... **\$29.99**

**802** Bipolar Field Strength Meter (right) – Dual whips included. Dim: 2.4" w x 4" h x 1.5" d... **\$49.99**



### 852 Power Line Noise Meter

A sensitive AM receiver, fixed tuned in the 135 MHz range, coupled with a balun isolated 24 inch directional telescopic dipole antenna. Simply hold the unit and rotate while listening via headphones and observing the meter. A clearly defined null accurately pin-points the location of the offending noise. Accommodates a tape recorder for later playback. Uses 9V battery. Dim: 2.8" w x 4" h x 1.5" d... **\$119.99**

**805** RFI Detector – Clamp the top mounted transformer over a suspect cable or wire (up to 1/4 in. dia.) to detect RFI causing common-mode currents. Great for checking mobile installations – ferreting out alternator hash, ignition pulses and micro-processor noise on feed lines and power leads. Works VLF to VHF. Uses a 9-Volt battery. Dim: 2.25" w x 4.75" h x 1" d... **\$99.99**

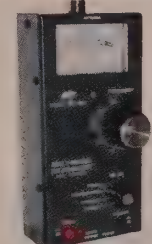


**854** RF Current Meter – The top-mounted sense coil snaps over wires, cables, etc. up to 1/2" diameter. Measures actual RF currents in antenna elements, ground wires, radials and outside of coax feedlines. Six ranges, 30mA to 3A; Accurate 1 to 30 MHz; Range with variable sensitivity control; Auto-off, press-to-test circuit; All aluminum case and G-10 PC board. Dim: 2.5" w x 5.5" h x 1.5" d; 11 oz. **\$119.99**



### 224 2M FM Signal Analyzer™

Covers 143.5-148.5 MHz. Measures: signal strength (60dB range), antenna gain, beamwidth, front-to-back ratio, sidelobes and feedline loss. Check and set FM deviation, plot field strength patterns, position antenna, measure preamp gain, tune transmitters and filters, analyze modulation wave forms, measure audio distortion, noise and peak deviation. Headphone jack. Dim: 4" w x 2.5" d x 6.75" h. **\$169.99**



## FREQUENCY COUNTERS



**886** Pocket Frequency Counter  
Covers 1 MHz to 3 GHz with direct 300 MHz count with 0.1 Hz resolution on a 10-digit, 3/4 in. LCD display. Ultra sensitive synchronous detector; RF Signal Strength LCD bargraph; Four selectable gate times give 0.1-10 Hz resolution in the 300 MHz range and 10-1000 Hz resolution in the 3 GHz range. Includes a rechargeable 6-hour Ni-Cd battery. Dim: 2.75" w x 3.25" h x 1.25" d... **\$129.99**



**888** Deluxe Frequency Counter  
Measures frequency and period. Covers 10 Hz to 3 GHz. with a 10-digit LCD and an ultra-sensitive synchronous detector with 16 section signal strength bargraph. High-speed 300 MHz direct counter with 0.1 Hz resolution and 4 selectable gates. Hi-Z low range; Auto-hold; LED backlight; Beeper; Hold; Low battery indicator. Built-in 6-hour Ni-Cd pack. With battery, charger, and telescopic whip. Dim: 2.75" w x 4.25" h x 1.25" d; 9 oz.. **\$199.99**

## SWR ANALYZERS



**207** HF Antenna SWR Analyzer – Obtain a direct readout of antenna's SWR without formulas, etc. Range: 1.75 MHz to 30 MHz... **\$99.99**

**208** VHF Antenna SWR Analyzer – Obtain direct SWR of antennas from 138-156 MHz... **\$99.99**

207/208 – Dim: 7" h x 2" w x 2" d and uses 9V Battery or 110 VAC with MFI-1312D

**209** SWR Analyzer – A wide range oscillator, a 50Ω RF bridge, and a calibrated bridge unbalance indicator. This combination allows measurement of antenna SWR from 1.8 to 170MHz on the single analog meter, and usable as a signal source. Uses (8) AA cells or 110VAC with MFI-1312D. Dim: 6.75" h x 4" w x 2.5" d... **\$149.99**



# Coaxial RF Directional Dynamics Wattmeters



**81000-A RF Directional Wattmeter** – Gives accurate RF Power measurement in 50Ω coaxial systems. Uses an internal line section and "Quick Match" plug in elements in the range of 0.1–10,000 watts full scale, and from 0.45 to 2300 MHz.

Simply plug in the appropriate measuring element and select forward or reflected direction. Measured average RF power is indicated directly on the large 4.5" "taut-band" meter with three scale display. The meter is also mirrored and shock mounted to provide the most reliable and accurate readings.

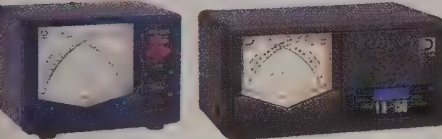
Strong shock-proof housing. With SO-239 connectors (Type-N female Special Order) ..... **\$289.99**

**83000-A RF Peak Reading Wattmeter** – Similar in appearance and operation to the standard Model 81000-A wattmeter. Contains an amplifier which allows measuring of both Average and Peak Envelope Power (PEP) with the flip of a switch. Internal 9V battery (included) is required for peak reading mode..... **\$413.99**

See Page 6 in the Price Guide for Plug-in Elements that also work in BIRD meters



## Cross Needle SWR/ Power Meters



**CN-101** – Covers 1.8-150 MHz, rated at 1500W from 1.8-60 MHz and up to 1000W at 144 MHz. Shows Forward/Reverse power and VSWR simultaneously. Three power ranges: 15/150/1500W (RMS or PEP); ±10% of full scale accuracy. SWR detection sensitivity: 4W minimum; 50Ω, SO-239 connectors. Dim: 6" w x 3" h x 3.9" d; 1.5 lbs ..... **\$99.99**

**CN-103M** – Same as CN-101, but covers 140-525 MHz and rated at 200W. Two power ranges: 20/200W (RMS or PEP) ..... **\$99.99**

**CN-103N** – CN-103M with N connectors **\$109.99**

## Professional Series

The CN-801 series of Cross Needle meters feature the largest meter face, and the most accurate in the Daiwa line. Calibrated in .5W increments with 5W SWR detection sensitivity and lighted. The 801HP reads true PEP. Dim: 6" w x 4" h x 4.5" d; 2.2 lbs

**CN-801HP** – 1.8-200 MHz, 20/200/2kW **\$159.99**

**CN-801V** – 140-525 MHz, 20/200W ..... **\$154.99**

**CN-801SII** – 900-2500 MHz, 2/20W/200mW, type-N.... **\$269.99**

# DIAMOND ANTENNA



## SWR/Power Meters

(left) Five models measure power and SWR with 5–10% of F.S. accuracy. Illuminated meter, sensor switch, LED indicator. Power ratings for intermittent operation. For continuous, ratings vary with frequency. SO-239 connectors on all except SX-1000 (type-N). Dim: 6" w x 2.5" h x 4" d; 2 lbs.

**SX-100** – 1.6-60 MHz, 30/300/3kW PEP **\$134.99**

**SX-200** – 1.8-200 MHz, 5/20/200W PEP. **\$94.99**

**SX-400** – 140-525 MHz, 5/20/200W PEP **\$114.99**

**SX-600** – Dual band, 1.8-160 MHz and 140-525 MHz, 5/20/200W PEP ranges..... **\$169.99**

**SX-1000** – Dual band, 1.8-160 MHz and 430-1300 MHz, 5/20/200W PEP ranges..... **\$214.99**

## Cross-Needle SWR/Power Meters

(right) Indicate forward/reflected power and SWR simultaneously. 50Ω impedance, SO-239 connectors, 10% F.S. accuracy; 3.3" w x 3.4" h x 3.7" d; 9 oz.

**SX-20C** – 3.5-30/50-54 and 130-150 MHz ranges; 30/300W. Needs 5W minimum for VSWR. **\$89.99**

**SX-40C** – 144-470 MHz (220 MHz with correction factor); 30/300W (3W minimum power)... **\$79.99**



## Low Cost SWR Meters

**SWR-1** SWR/Field Strength – Range: 3.5-150 MHz; Z: 50-52Ω; SWR: 1:1-3:1; Accuracy: 5%; Meter sensitivity: 300uA; 5 in. RF pick-up antenna. Dim: 6" h x 2" w x 2.9" d; 14 oz..... **\$29.99**

**SWR-3** SWR Meter – Range: 1.7-30 MHz; Imp: 52Ω; SWR: 1:1-3:1; Accuracy: 5%; Sensitivity: 300uA. Dim: 2.5" h x 3.5" w x 3" d; 6 oz.. **\$19.99**

# AMERITRON

## AWM-30 SWR/Wattmeter

Range: 1.8 to 30 MHz. Reads true-peak or average power, forward and reflected power and SWR on an illuminated three inch Cross-Needle meter with 3000/300 Watt ranges. Remote sensor with cable. Battery saver turns unit off with no RF applied. Uses 12 VDC or 9V battery. Dim: 4.5" w x 4.5" h x 5.5" d..... **\$149.99**

**AWM-35** – Similar to the AWM-30 but is only 1 5/8" thick. Perfect for mobile installation..... **\$159.99**

# VECTRONICS SWR/POWER METERS



**PM-30HF** – Range: 1.8 to 60 MHz. Displays peak and average forward and reflected power, and SWR simultaneously on a dual movement back-lit cross-needle meter. Power Ranges: 300 and 3000 Watts. SO-239 connectors.

Dim: 5.3" w x 3.5" h x 5.75" d; 1.2 lbs ..... **\$89.99**

**PM-30UV** – Same features as the PM-30HF, but covers 144/220/440 MHz bands. 30/300W ranges. SO-239 connectors ..... **\$99.99**

# DUMMY LOADS

A Must for every hamshack!



**ADL-1500** Oil Cooled Dummy Load – Similar to MFJ-250, 1500W up to 30 MHz..... **\$74.99**

**ADL-2500** Dry Dummy Load – Similar to Vectronics DL-2500 below, 2500W up to 30 MHz, fan cooled ..... **\$209.99**

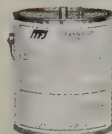
# DIAMOND ANTENNA



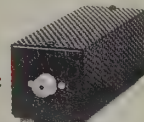
## DL-30A Small Dummy Load

Frequency range: DC to 500MHz. Power: 15W continuous, 100W peak. Dim: 3" long x 1.25" diameter. PL-259 male connector ..... **\$39.99**

**DL-30N** Has Type-N male connector.. **\$39.99**



# MFJ



**250** Versaload – A 50 ohm Oil-filled Dummy Load providing low VSWR up to 400 MHz. Rated at 1000W CW or 2000W PEP for 10 minutes. Good for 20 minutes at 50% power rating and continuous operation at 200W CW or 400W PEP. SO-239 connector. Dim: 7.3" h x 6.6" diameter. Supplied with high-quality oil..... **\$69.99**

**250X** – Same as above, but requires oil.. **\$49.99**

**Dry Loads** – A non-inductive 50 ohm resistor mounted in a metal housing, air cooled. Full rated load for 30 sec., derating curve to 5 min.

**260C** HF/VHF Range – Rated at 300W at 1:1 VSWR up to 30 MHz, 1.5:1 to 650 MHz. SO-239 connector. Dim: 2.5" w x 2.5" h x 7" d.... **\$39.99**

**260CN** – Has type "N" connector ..... **\$49.99**

**264** UHF, Wide Range – Good from 1.3 to 650 MHz and usable up to 750 MHz. Rated at 1500W for 10-seconds, 100W for 10-minutes. SO-239 connector. Dim: 3" w x 3" h x 9" d..... **\$74.99**

**264N** – Has type "N" connector ..... **\$84.99**

## 267 SWR/Wattmeter with

**Dry Dummy Load** – A built-in 100W 50 ohm dummy load with a 3 inch cross-needle meter shows peak and average forward and reflected power and SWR. Usable 1.8–60 MHz. Power: 300/3000W forward, 60/600W reflected Usable 1.8 to 60 MHz. Dim: 4" w x 3.125" h x 10" d..... **\$159.99**



# VECTRONICS

DL-2500



**DL-300M** Dry Dummy Load – Power rated at 300W for 15 sec., to 100W for 40 sec. VSWR <1.3:1 at 150 MHz. Dim: 5" h x 2" d x 2.9" h; 8 oz. **\$49.99**

**DL-650M** Dry Dummy Load – Good all the way up to 650 MHz. Power handling curve is rated at 1500W for 10-seconds, down to 100W for 10 min. VSWR <1.3:1 at 500 MHz.. **\$79.99**

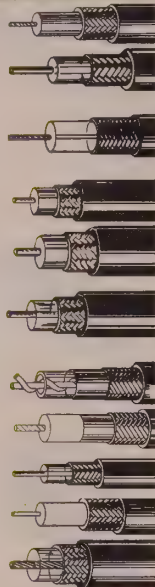
**DL-2500** High-Power Dry Load – A fan cooled heavy-duty load for up to 150 MHz. Power handling curve rated at 2500W for 1 minute, down to 500W for 10 minutes ..... **\$199.99**



Price Guide  
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Radios  
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Audio / Video  
& Tools  
AES  
Information

## Prices are in Price Guide

**BELDEN**  
SENDING ALL THE RIGHT SIGNALS



**TIMES  
MICROWAVE  
SYSTEMS**

### COAX CABLE

Model	Type	Dia (in.)	Center Conductor	Insulation Type	Shield Coverage	Jacket Type	Imp. (Ω)	Vel. Factor	Loss/100' 100 MHz
<b>BELDEN</b>									
8216	RG-174 Subminiature	0.11	26 AWG bare copper coat steel	Solid polyethylene	90% tinned copper braid	Black PVC	50	66%	8.4 dB
8219	RG-58A/U	0.195	20 AWG stranded bare copper	Foam polyethylene	96% tinned copper braid	Black PVC	53.5	73%	4.5 dB
8240	RG-58/U	0.195	20 AWG stranded bare copper	Solid polyethylene	95% tinned copper braid	Black PVC	51.5	66%	3.8 dB
8259	RG-58A/U	0.193	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black PVC	50	66%	5.4 dB
8262	RG-58C/U non- contaminating	0.195	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black non- contaminating PVC	50	66%	5.4 dB
9258	RG-8X Mini-8	0.242	16 AWG stranded bare copper	Foam polyethylene	95% bare copper braid	Black PVC	50	82%	3.1 dB
8214	RG-8/U	0.403	11 AWG stranded bare copper	Foam polyethylene	97% bare copper braid	Black PVC	50	78%	1.7 dB
8237	RG-8/U	0.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black PVC	52	66%	1.9 dB
8267	RG-213/U non- contaminating	0.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black non- contaminating PVC	50	66%	2.1 dB
9913	Low loss semi- flexible RG-8/U	0.405	10 AWG solid bare copper	Semi-solid	100% bonded foil plus 90% tinned copper braid	Black PVC	50	84%	1.3 dB
9913F7	Low loss flexible RG-8/U	0.405	10 AWG stranded bare copper	Gas-injected Foam	100% bonded foil plus 90% tinned copper braid	Black Belflex®	50	84%	1.5 dB
8241	RG-59/U	0.242	23 AWG sold bare copper	Solid polyethylene	95% bare copper braid	Black polyethylene	75	66%	3.4 dB
8213	RG-11/U	0.405	AWG 14 solid bare copper	Gas-injected Foam	97% bare copper braid	Black polyethylene	75	84%	1.3 dB
8238	RG-11/U	0.405	18 AWG stranded tinned copper	Semi-foam	97% bare copper braid	Black PVC	75	66%	2.0 dB

### TIMES MICROWAVE SYSTEMS

LMR-400	RG-8	0.405	Solid BCCAI	Foam polyethylene	100% alum tape plus 95% tinned copper	Black polyethylene	50	85%	1.248 dB
LMR-400-DB Watertight	RG-8	0.405	Solid BCCAI	Foam polyethylene	100% alum tape plus 95% tinned copper	Black polyethylene	50	85%	1.248 dB
LMR-400-UF Ultraflex	RG-8	0.405	10 AWG stranded bare copper	Foam polyethylene	100% alum tape plus 95% tinned copper	Black rubber	50	85%	1.498 dB

## Radiowavz

### RG-8X COAX JUMPER CABLES

<b>J8X-U1</b>	1.5 ft. RG-8X w/PL-259's	<b>\$9.99</b>
<b>J8X-U3</b>	3 ft. RG-8X w/PL-259's	<b>11.99</b>
<b>J8X-U6</b>	6 ft. RG-8X w/PL-259's	<b>14.99</b>
<b>J8X-U12</b>	12 ft. RG-8X w/PL-259's	<b>22.99</b>
<b>J8X-U25</b>	25 ft. RG-8X w/PL-259's	<b>29.99</b>
<b>J8X-U50</b>	50 ft. RG-8X w/PL-259's	<b>37.99</b>
<b>J8X-U75</b>	75 ft. RG-8X w/PL-259's	<b>49.99</b>
<b>J8X-U1X</b>	100 ft. RG-8X w/PL-259's	<b>63.99</b>

### RG-213 COAX JUMPER CABLES

<b>J213-U1</b>	1.5 ft. RG-213 w/PL-259's	<b>\$14.99</b>
<b>J213-U3</b>	3 ft. RG-213 w/PL-259's	<b>16.99</b>
<b>J213-U6</b>	6 ft. RG-213 w/PL-259's	<b>17.99</b>
<b>J213-U12</b>	12 ft. RG-213U w/PL-259's	<b>24.99</b>
<b>J213-U25</b>	25 ft. RG-213 w/PL-259's	<b>34.99</b>
<b>J213-U50</b>	50 ft. RG-213 w/PL-259's	<b>55.99</b>
<b>J213-U75</b>	75 ft. RG-213 w/PL-259's	<b>73.99</b>
<b>J213-U1X</b>	100 ft. RG-213 w/PL-259's	<b>94.99</b>
<b>J213-U12X</b>	125 ft. RG-213 w/PL-259's	<b>114.99</b>
<b>J213-U15X</b>	150 ft. RG-213 w/PL-259's	<b>136.99</b>

**BELDEN**  
SENDING ALL THE RIGHT SIGNALS

### RG-8/U COAX JUMPER CABLES

<b>9354</b>	- 50' RG-8/U low-loss foam, PL-259s	<b>\$104.99</b>
<b>9355</b>	- 75' RG-8/U low-loss foam, PL-259s	<b>144.99</b>
<b>9356</b>	- 100' RG-8/U low-loss foam, PL-259s	<b>166.99</b>



### ROTARY COAX CABLE STRIPPERS

<b>24-7735P</b>	- for RG-58, RG-59, RG-62	<b>\$22.99</b>
<b>24-7736P</b>	- for RG-6, RG-59, 8281	<b>22.99</b>
<b>24-7739P</b>	- for RG-8, RG-11, RG-213	<b>32.99</b>

## READY-MADE COAX CABLE ASSEMBLIES

### CXP1318FC

Connector: **PL259 both ends.**  
Burial: **Yes.** UV Resistant: **Yes.**  
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**  
Attenuation @ 100ft: 50MHz 1.1, 150MHz 1.9, 450MHz 3.3  
Recommended frequencies: 50-450MHz.

### CXP008C

Connector: **PL259 both ends.**  
Burial: **No.** UV Resistant: **Yes.**  
Shields: **1** (95%BC Braid) **V/P 78%**  
Attenuation @ 100ft: 10MHz 0.51, 30MHz 0.9, 50MHz 1.2  
Recommended frequencies: 1-50MHz.

### CXP1318FN

Connector: **"N" Male both ends.**  
Burial: **Yes.** UV Resistant: **Yes.**  
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**  
Attenuation @ 100ft: 150MHz 1.9, 450MHz 3.3  
Recommended frequencies: 150MHz & higher.

### CXP08XC

Connector: **PL259 both ends.**  
Burial: **No.** UV Resistant: **Yes.**  
Shields: **1** (95%BC Braid) **V/P 78%**  
Attenuation @ 100ft: 10MHz 0.98, 30MHz 2.0  
Recommended frequencies: 1-30MHz.

### CXP213C

Connector: **PL259 both ends.**  
Burial: **Yes.** UV Resistant: **Yes.**  
Shields: **1** (97%BC Braid) **V/P 66%**  
Attenuation @ 100ft: 10MHz 0.62, 30MHz 1.2  
Recommended frequencies: 1-30MHz(High Power).

### BRAIDED GROUND STRAP



Sizes: ..... 1/2" wide  
or ..... 1" wide



**CABLE X-PERTS, INC.**

Connecting You to the World...

See Page 6 in the Price Guide for pricing.



## UHF CONNECTORS

General purpose and, with the use of optional reducing adapters, accommodate a wide range of applications. Rated for up to 300 MHz. Impedance is non-constant and voltage rating is 500V peak.

### AMPHENOL

**83-1SP-1050** – PL-259 coaxial connector **C/O**  
**83-1SP** – PL-259 silver-plated coaxial connector

### CZL

**401TS** – PL-259; silver plated, Teflon®, gold pin **C/O**

### AMPHENOL

PL-259 Reducers  
**83-185-RFX** – For RG-58  
**83-168-RFX** – RG-59/8X

### AMPHENOL

**83-878** – UHF single hole bulkhead receptacle

### AMPHENOL

**83-1R** – SO-239 UHF panel receptacle

### SHAKESPEARE

**PL-259CPG** – PL-259; no strip, solderless male connector for RG-8X & RG-58/AU

### SHAKESPEARE

**PL-258CPG** – No strip, solderless splice for RG-8X & RG-58/AU

## TYPE-N CONNECTORS

Constant 50Ω impedance, excellent performance up to 11 GHz and 1,500V peak. Internal gaskets provide better weather resistance than the standard UHF type.

### AMPHENOL

**82-202-1006** – Type-N Male connector for 8214, 9913 & 9913F  
**34025** – Type-N Male connector for RG-58

### CABLE X-PERTS

**6633S** – Two-piece, EZ-install Type-N connector for 9913/8214

### AIM

**26-8011** – Type-N chassis mount receptacle

### AMPHENOL

**82-24** – Type-N panel mount receptacle

## BNC CONNECTORS

Miniature, lightweight connectors for RG-58/59 type coax. Quick disconnect bayonet coupling, small size and low cost. Rated for up to 4 GHz. Impedance is 50Ω nominal. Voltage rating is 500V peak.

### AMPHENOL

**31-002**  
 BNC Male for RG-58  
**31-012**  
 BNC Male for RG-59/8X

### AIM

**CPAD-556M**  
 BNC Dual Female chassis mount

### AMPHENOL

**31-221**  
 BNC Female chassis mount

## COAXIAL ADAPTERS

### AMPHENOL

**83-1T**  
 UHF T-connector

### AIM

**27-8140**  
 BNC T-connector

### AMPHENOL

**83-877** – UHF double male

### AMPHENOL

**4400** – SO-239 to Type-N male

### AIM

**26-8015** – SO-239 to Type-N male

**26-8016** – BNC female to Type-N male

### AMPHENOL

**31-28** – BNC female to PL-259

### AIM

**27-8120** – BNC female to PL-259

### HOUSE OF DEALS

**SMA-872** – SO-239 to SMA plug

### AIM

**27-8130** – BNC double male

### AIM

**25-7420** – BNC male to SO-239

**26-8017** – BNC male to N female

### AMPHENOL

**2900** – BNC male to SO-239

### AIM

**25-7420** – BNC male to SO-239

### AMPHENOL

**83-1AP** – UHF right angle

### AMPHENOL

**82-64** – Type-N right angle

### AIM

**27-8150** – BNC right angle

### AIM

**26-8016** – BNC female to Type-N male

### AIM

**25-7365** – BNC female to SO-239

### AIM

**29-4140** – SO-239 to mini-PL-259

### AIM

**26-8014** – Type-N female to PL-259

### AMPHENOL

**83-1J** – UHF double female connector

### AIM

**CPAD-207** – Chassis or panel mount SO-239 double female connector

### AIM

**26-8010** – Type-N double female connector

### AIM

**29-3855** – BNC female to SMA male

## MICROPHONE AUDIO & DIN CONNECTORS

### VANCO

**CBC-8P** Panel mount 8-pin male

### KENWOOD

**7-PIN DIN** plug  
**8-PIN DIN** plug  
**13-PIN DIN** plug

### PHILMORE

**61-608B** 8-pin female microphone plug

### VANCO

**CBC-4** 4-pin female microphone plug  
**CBC-5** 5-pin female microphone plug  
**CBC-6** 6-pin female microphone plug

### HOUSE OF DEALS

**AP-115** 1/4" metal stereo plug  
**AP-135** 3.5mm stereo mini-phone plug

### DALBANI

**15-0293** 3.5mm mono-aural phone plug **C/O**

Prices for items on this page can be found under **CONNECTORS** on Page 7 in the Price Guide.



Price Guide  
Used / Demo

Ham Radios

Ham Radio  
Accessories

Antennas

Antenna  
Accessories

Publications

Other  
Radios

Weather

Audio / Video  
& Tools

AES  
Information

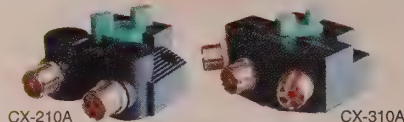
## COAXIAL ANTENNA SWITCHES

### ALPHA DELTA



Made only in the USA. A high quality custom design that features a cast housing with a constant impedance micro-strip cavity for outstanding performance through UHF. Two and four position models, see the Price Guide and Alpha Delta page.

### DIAMOND ANTENNA



Low Loss, High Isolation  
Heavy Duty Coaxial Switches

**CX-210A** 2-position - Frequency Range: DC to 1000 MHz. Power (CW): 1.5 KW (0-30 MHz); 1 KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz). 50Ω, SO-239 connectors. Dim: 2.5" w x 1.75" h x 3.5" d, 15.5 oz..... **\$44.99**

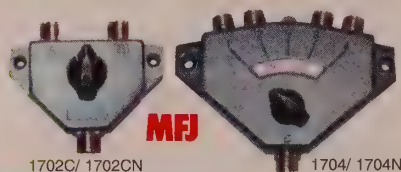
**CX-210N** 2-position - Same as CX-210A, except has Type-N connectors and different ratings. Frequency Range: DC-3000 MHz. Power (CW): 1.5 KW (0-30 MHz); 1 KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz); 150W (1000-3000 MHz)..... **\$74.99**

**CX-310A** 3-position - Frequency Range: DC-800 MHz. Power (CW): 1.5 KW (0-30 MHz); 1 KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz). 50Ω, SO-239 connectors. Dim: 3.3" w x 1.12" h x 3.75" d, 20 oz..... **\$84.99**

### DAIWA

**CS-201** 2-Position Coaxial Switch - Heavy die-cast metal construction with Cavity Design, usable up to 600 MHz. <0.12 VSWR, <0.2dB insertion loss, 60dB isolation. Rated 2.5 KW PEP or 1KW CW. Automatically grounds the unused terminal. SO-239 connectors ..... **\$32.99**

**CS-201GII** - Same as CS-201 but with type-N connectors and good to 1300 MHz ..... **\$48.99**



**1702C** 2-Position Antenna Switch - Heavy cavity-type construction, rated to 500 MHz and 2.5KW PEP or 1KW CW. SO-239 connectors, 50-75Ω. <0.2dB loss and >50dB isolation. Switch has a center grounding position and the unused terminal is automatically grounded for surge protection. Dim: 3" w x 2" h x 2" d ..... **\$39.99**

**1702CN** - Same as 1702C, but with Type-N connectors, good up to 1.1 GHz..... **\$44.99**

**1704** 4-Position Antenna Switch with Lightning Surge Protection - Heavy, cavity-type. SO-239 connectors, 50-75Ω, rated to 500 MHz and 2.5KW PEP, 1KW CW. Center ground position, replaceable gas tube protector. Dim: 6.2" w x 4.2" h x 2" d... **\$79.99**

**1704N** - Same as 1704 but with Type-N connectors, good to 1.1 GHz..... **\$84.99**



**1701** Six position Antenna Switch - Select 1 to 6 50-75Ω antennas. Rated 2KW PEP or 1KW CW, 1.8-30 MHz. SO-239 connectors, unused terminals are grounded. Dim: 10" w x 3" h x 1.5" d.... **\$69.99**

### 1700C Antenna and Transceiver Switch with Lightning Protection

Switch up to six antennas and six radios in any combination. Rated 1.8-30 MHz, 2KW PEP or 1KW CW, 50/75Ω ..... **\$99.99**

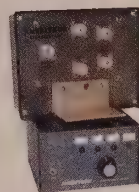


**1703** Rig/Antenna RF Safety Switch - Prevents your rig from transmitting into no load. Your rig is always connected to one of two antennas. Connect two rigs and two antennas and switch to different combinations. Range: 1.8-30 MHz; up to 300W SSB/150W CW. Metal cabinet with mounting tabs. Dim: 6.5" w x 2.5" h x 1.5" d **\$29.99**



## REMOTE ANTENNA SWITCHES

### AMERITRON



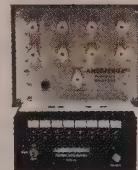
**RCS-4** - Use just one coaxial feedline, select up to 4 different HF antennas. The weather proof relay box can be remotely mounted outside on a tower, mast, etc. A control box located at the operating position works thru the coaxial cable without the need for a separate control line. Designed with heavy duty 10 Amp contact relays on a fiberglass circuit board rated at 2 KW and 1.8-30 MHz. Dim: (relay box) 5.25" d x 7" w x 3"; (control box) 6" d x 6" w x 2.5" h..... **\$149.99**



**RCS-8V** - Independently or simultaneously select up to 5 different antennas using one coaxial feedline and an 8-wire control cable. Select grounding or floating unused terminals. SO-239 connectors. Rated 5KW to 30 MHz, 1KW to 150 MHz..... **\$159.99**

**RCS-8VN** - Same as RCS-8V but with Type-N female coaxial connectors ..... **\$169.99**

**RCS-10** - Select up to 8 HF antennas using one feed line and a single 4-wire control line. Long life, 16 Amp 100 MHz sealed relays will handle over 5 kW into matched loads below 30 MHz ..... **\$179.99**



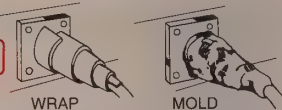
### MFJ



**4712** - Select 2 antennas using a single coax feedline to an outside switch box. Separate control line not needed. Rated 1.8-150 MHz, 1500W and 50-75Ω. Inside control box and weatherproof outside switch box. SO-239 connectors, mounting bracket. 12VDC power supply required, not included ..... **\$79.99**

## CONNECTOR PROTECTION

### COAX-SEAL



**UNV 104** Hand Moldable Plastic for Antenna Component Protection - The quick and effective way to seal and protect all types of coaxial connectors and antenna system components. Simply wrap it on like regular tape, then mold it to any shape. It adheres tightly to metal, vinyl and polyvinyl coax outer jackets. Stays flexible and sealed at any temperature to resist moisture penetration. Permanent flexibility makes it possible to remove and reinstall fittings, then re-seal by reforming the same material. Non-toxic and non-contaminating roll, 1/2" w x 60" l..... **\$3.99**

## WATER PROTECTION

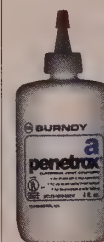
### Cross Devices



**STUF** Dielectric Water-proof Connector Filler High purity macroscopic foam dielectrically simulates the coaxial cable core and seals out moisture. Just fill coax connectors and tighten. The filler material hydraulically channels into all voids and points of moisture entry. Non-hardening, easy to remove. No silicone or other additives to harm coax cable material ... (tube) **\$5.99**

## CORROSION PROTECTION

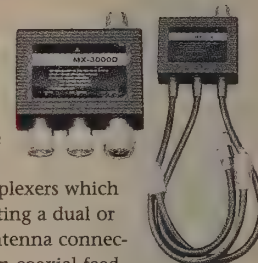
### PENETROX™



A highly conductive grease recommended for use on aluminum-to-aluminum and aluminum-to-copper connectors, bare conductors, and bus bars. Assures long term high conductivity joint by sealing out air and moisture to prevent corrosion and reformation of oxide film. Apply to mating pieces of antenna components, tubing, etc. during assembly, to provide a non-corrosive, low resistance air tight seal and easy disassembly.. **PENETROX A** (4oz. bottle) **\$14.99**

## DUPLEXERS/TRIPLEXERS

See  
**Comet**  
on Page 7  
**Diamond**  
on Page 9



in the Price Guide for a selection of Duplexers and Triplexers which will allow connecting a dual or tri-band radio's antenna connections to a common coaxial feed line and multi-band antenna.

## ORDER ON-LINE • BY PHONE!



We accept I.M.P.A.C.® Government Credit Cards

## USE YOUR CREDIT CARD



## PolyPhaser<sup>®</sup> CORPORATION

The primary rule for protecting ham radio equipment against lightning damage is connection of all elements to a SINGLE, low impedance grounding point within the ham shack. This includes antenna, antenna support (pole, tower, etc.), and all station protectors (antenna, power, telephone, rotor). Polyphaser CU-SPGP panel (right) recommended.

### BROADBAND COAXIAL PROTECTORS

Uses special hermetically-sealed gas tubes and other components to protect station equipment from surge voltages and currents that form differentially on coaxial transmission lines. Wide frequency range, low loss and DC blocked for maximum protection Aluminum enclosure. Silver-center, TFE UHF connector or silver shell and gold pin Type-N.



#### Flange Mount **IS-50UX-C0**

Range: 1.5-400 MHz; Rating: (HF) 2KW, (VHF) 375W, (UHF) 125W; UHF connector ..... **\$66.99**

#### **IS-50UX-C1**

Range: 50-700 MHz; Rating: (VHF) 375W, (UHF) 125W; UHF connector..... **\$66.99**

#### **IS-50NX-C2**

Range: 125-1000 MHz; Rating: (VHF) 375W, (UHF) 125W/50W (low/high); Type-N... **\$62.99**

#### Bulkhead Mount

#### **IS-B50LU-C0**

Range: 1.5-400 MHz; Rating: (HF) 2KW, (VHF) 375W, (UHF) 125W; UHF connector ..... **\$69.99**

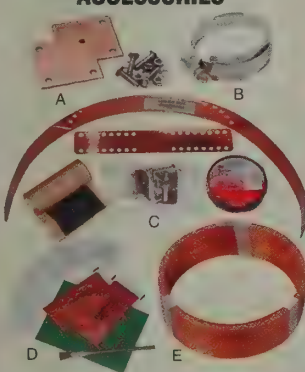
#### **IS-B50LU-C1**

Range: 50-700 MHz; Rating: (VHF) 375W, (UHF) 125W; UHF connector..... **\$69.99**

#### **IS-B50LN-C2**

Range: 125-1000 MHz; Rating: (VHF) 375W, (UHF) 125W/50W (low/high); Type-N... **\$69.99**

### ACCESSORIES



**1C-112S** Clamp Bond (A) - Bonds #6 - #1 AWG cable to 1-1/2" Copper Strap ..... **\$33.99**

**58R-112S** Clamp Bond (A) - Bonds 1-1/2" copper strap to a 5/8" Ground Rod. Looks same as 1S-112S except fits 5/8" rod ..... **\$32.99**

**TK-2** Ground Clamp (B) - Attaches Copper Strap to Galvanized Tower Legs; 1-1/4" to 2-1/4" diameter (Rohn 25, 45, 65, etc.) **\$8.99**

**UNIKIT2CC** Cable Grounding kit (C) - Attaches coaxial cable (1/4" to 2-1/8" dia.) to a copper or brass grounding point. Copper strap 24 in. long. Hardware, coax sealer and tape included... **\$49.99**

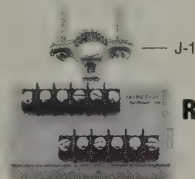
**CCK** Copper Cleaning Kit (D) - Easily clean copper and weather seal connections from moisture and corrosion. Includes surface cleaning pad, copper joint compound, brush & finger cleaning packets **\$28.99**

#### **Low Inductance Copper Strap (E)**

Larger surface area and lower inductance is a big advantage over wire for RF grounding and lightning protection. #26 AWG, available in 1-1/2 or 3 in. widths and 25, 50 or 100 ft. rolls ..... See Page 19

### GROUNDING PANEL

**CU-SPGP** - A heavy (0.062") copper plate mounted on 1/2" plywood. Use for mounting surge protectors and establishing the very important single grounding point for all station equipment. Comes with concrete anchors, mounting screws, two rolls of 10' x 1.5" copper grounding strap and 2 copper, 18" x 12" sandwich bars. Standard 16" on-center mounting... **\$179.99**



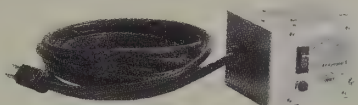
### ROTOR CONTROL PROTECTOR

**IS-RCT** - Protects rotor controllers (up to 8-wires) from the damages relating to lightning events. Each terminal has an individual gas tube inside the water-tight aluminum box. Shown with optional J-1 Transition Clamp installed on the top..... **\$129.99**

**J-1** Transition Clamp - For IS-RCT ..... **\$15.99**

### POWER LINE EXTENSION PROTECTOR

In-line, multi-stage surge protector provides multi-strike protection, filtering and proper grounding for a 120V AC circuit. Has 2 grounded outlets, power on/off rocker switch, and circuit breaker. All aluminum grounded enclosure. Dim: 4.75" wide.



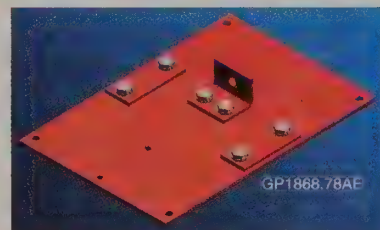
**PLDO-120US15A** - 15A, 15 ft. cord. **C/O \$119.99**  
**PLDO-120US20A** - 20A, 6 ft. cord..... **\$199.99**

### GROUNDING ACCESSORIES



**GBIS18114AE** 1/8" Copper Entrance Ground Bar Kit - Installs at shack entrance, making a short connection to a ground system. Holds up to five PolyPhaser lightning protectors. Insulated stand-off brackets allow attaching and insulating of ground bar from mounting surface. Two HD terminal lugs and hardware included. Accepts grounding wires from 1/0 stranded to #6 solid ..... **\$39.99**

**GEL3AE** - Pkg. of 5 HD terminal lugs .... **\$26.99**

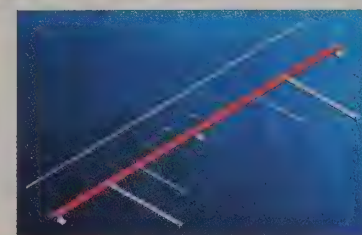


**GP1868.78AE** 1/8" Copper Single Point Ground Panel Kit - Provides grounding for two transceiver lines and rotor control cable. Installs at tower base or on outside wall. Fits inside a NEMA-4X style box for weather proofing. Tapped holes, sandwich plates and hardware provided... **\$76.99**



#### **GBX976AE** NEMA 4X

Waterproof Enclosure  
Accepts GP1868.78AE ground panel, above  
**\$127.99**



**GBIS18148AE** 1/8" Copper Station Ground Bar Kit - Installs in back of operating desk. Grounds individual components to a common point preventing multiple ground paths and daisy-chains. Accepts a heavy ground conductor to be routed to station ground or entrance ground bar. Includes two heavy 12 in. straps for equipment and two light duty 1/4 in. straps for accessories, plus an extra 1/4 in. strap and lugs for added assemblies ..... **\$83.99**

### **(AES)** LIGHTNING PROTECTORS

Replaceable Gas-tube protection isolates damaging surges. Bulk head or flange mounting with included bracket. Machined construction, gold pin teflon female connectors. Rated 1600W. Dim: 2.5"l x 1" dia.

**SP-U** - UHF female connectors; DC to 600 MHz range; 0.1dB insertion loss..... **\$59.99**

**SP-N** - Type-N female connectors; DC to 2.5 GHz range; 0.2dB insertion loss ..... **\$59.99**

**AP** - Replacement Gas-tube protector .... **\$9.99**

Connecting you to the World<sup>®</sup>  
**CABLE XPERTS**

### FLAT BRAIDED GROUND STRAP



Flat, flexible, and tinned for easy soldering. Use the 1 in. wide size for connecting tower legs or antennas to ground rods or to a central grounding point. From the central point, use separate lengths of 1/2 in. wide to connect to each piece of station equipment for best lightning protection.

**2332** - 1/2 in. (10 ga.), rated at 53A .... per ft. **89¢**

**2332 100** - 100 ft. roll of above..... **\$70.99**

**235** - 1 in. (7 ga.), rated at 85A ..... per ft. **\$1.44**

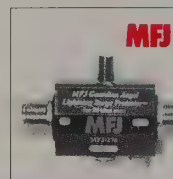
**235 100** - 100 ft. roll of above..... **\$124.99**

**Kleinhuys**  
North America, Inc.

### ISOLATED GROUNDING BAR



**1309** Isolated Ground Bar - Provides additional panel, sub or control panel grounding points. Accepts 8 to 12 (AWG) stranded or solid copper wire. Nickel-plated, copper clamping rail, locking protective hinged cover. UL listed, CSA approved. 600V max. Dim: 7.5"w x 1.75"h ..... **\$14.99**



**MFJ**

**270** Lightning Surge Protector - An ultra-fast gas discharge tube safely shunts impulse current up to 5,000 Amps peak to an independent ground. Rated 400W PEP, up to 1000 MHz..... **\$29.99**



## LOW-PASS & HIGH-PASS FILTERS

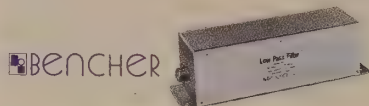
For suppressing Television interference (TVI) from nearby HF transmitters

**LOW-PASS FILTERS** installs in the transmission line between the transmitter and antenna or tuner. Allows signals below the filter's cutoff frequency to pass through to the antenna and attenuates signals above the cutoff frequency.

**HIGH-PASS FILTERS** installs at the TV set antenna terminals. Allow signals above the filter's cut-off frequency to pass through to the TV and attenuates signals below the cutoff frequency.



**HP-75T High-Pass Filter** – Stops interference to TV, FM & VCRs from amateur radio and other RF sources. For 75Ω coaxial cable systems Provides 70 dB attenuation below 50 MHz with a very sharp cut-off at 52 MHz ..... **\$14.99**



**YA-1 52Ω Low-Pass Filter** – Frequency: 1.8 to 29.7 MHz. Power: 1500W continuous, 5000W peak. Insertion loss: <0.2 dB at 29.7 MHz. Attenuation: 80 db @ 54 MHz. SO-239 connectors. Dim: 9.2" w x 2.5" h x 2.5" d, 2 lbs... **\$90.99**

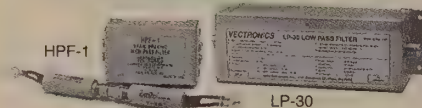


**704 52Ω Low-Pass Filter** – Frequency: 1.8-30 MHz. Power: full legal. Nine Chebyshev poles and Teflon® capacitors. Attenuates above 40 MHz. Insertion Loss: <0.5 dB. RF tight cabinet. Dim: 3" h x 3" w x 9" d..... **\$59.99**



**LF-30A 52Ω Low-Pass Filter** – Frequency: 1.8-30 MHz. Power: 1 KW. Loss: <0.5dB @ 30 MHz. Dim: 9.6" w x 2" h x 1.5" d..... **\$64.99**

### VECTRONICS



**LP-30 Low 52Ω Low-Pass Filter** – Covers 1.8-30 MHz, handles 1.5 KW. Up to -70dB harmonic attenuation ..... **\$89.99**

**LP-2500** – Same, but 2.5KW rating. **\$129.99**

**HPF-1 300Ω High-Pass Filter** – Reduces signals received from transmitters operating below 30 MHz. Effective in the TV passband 52 to 550 MHz. Unique shield breaking circuit prevents antenna cable from acting like an HF antenna. Includes a 75Ω matching transformer. **\$24.99**

**HPF-2 High-Pass Filter** – Same as HPF-1 but a Deluxe Version that suppresses the more severe TV interference from nearby radio transmitters such as broadcast, commercial, two-way, amateur and CB operating below 30 MHz. Additionally, uses a toroid ferrite core to reject common mode interference caused by RF current on the coax shield ..... **\$34.99**

## BANDPASS FILTERS



**DCI DIGITAL COMMUNICATIONS**

Installs in transmission line between a 2M, 220 or 440 MHz rig and antenna. Reduces the strength of undesired out-of-band signals (pagers, police radio, etc.) while allowing desired signals to pass through, and reducing spurious emissions on transmit.. VSWR: 1.5:1; Power: 200W. Aluminum, copper and brass construction. Dim: 12w"x 3"h x 5"d.

**146-4H** – Range: 144-148 MHz. Loss <1 dB; Selectivity: -57dB @ 136 MHz and -43dB @ 156 MHz. SO-239 silver-teflon connectors ..... **\$169.99**

**145-2H** – Same, but 144-146 MHz ..... **\$169.99**

**146/444DB Dual Band** – Range: 144-148/438-450 MHz. Selectivity: -50dB @ 136 MHz, -40dB @ 156 MHz, -30dB @ 425 MHz, -25dB @ 465 MHz. SO-239 silver-teflon connectors ..... **\$239.99**

**223.5-3H** – Range: 222-225 MHz. Loss 1 dB; Selectivity: -33dB @ 213 MHz and -28dB @ 233 MHz. SO-239 silver-teflon connectors ..... **C/O \$149.99**

**445-10C** – Range: 440-450 MHz. Typical selectivity: -47dB @ 425 MHz, -50dB @ 456 MHz; Loss 1dB. Type-N silver-teflon-gold connectors..... **\$189.99**

**435-10C** – Same, but 430-440 MHz .... **\$189.99**

Upgrade to type-N connectors on 2m and 220 MHz models – add \$10 to price. Special Order

## FERRITE RFI KITS



**701 RFI Free Choke Kit** – Eliminate RFI problems by winding an offending cable around an RFI suppressing toroid. Effective from 0.5-200 MHz. Split into halves for easy winding of all types of cable; computer ribbon, coax, power cord, telephone, audio-video. Halves mount in snap-together plastic frame. Multiples can be stacked for increased effect. (Pack of 4) **\$26.99**

## Palomar Engineers



**RFI-4 RF Interference Kit** – A selection of ferrite toroids and beads to eliminate RFI from 1-1000 MHz. Contains: 12 beads with 0.2" holes for small wires and cables, 4 toroid (donut shaped) cores with 1/2" holes, 4 with 3/4" holes and 4 split beads (toroids cut in half so you can put them over cables without removing connectors). Two fit over RG-58 (1/4" hole) and two fit over RG-8 (1/2" hole). Includes a RFI tip sheet explaining the use of ferrites and how to use them to keep RF out of computers, stereos, VCRs, alarm systems, and telephones ..... **\$25.99**



### MFJ Ferromagnetic-Core Design & Application Handbook

The legendary textbook from the late Doug DeMaw, W1FB emphasizes the practical aspect of ferromagnetic core material. 256 pages

**MFJ 3506 \$19.95**

## TELEPHONE RF INTERFERENCE FILTERS

**K-COM**



Designed for rejection of Radio Frequency Interference to telephones and telephone equipment. Use any number of filters to block RF with no adverse effect on telephone performance.

**RF-1 Single Line Modular** – For single line equipment; telephones, answering machines, cordless phones, fax and modems. RJ-11 ..... **\$16.99**

**RF-1/2-LINE Two Line Modular** – For two line equipment and multi-line electronic key phone systems in business environments. RJ-14 ..... **\$22.99**

**RF-1/COILED Coiled Cord Modular** – Insert interference rejection when RFI enters through the coiled telephone cord between base and handset. Mini-modular connectors ..... **\$22.99**

**RF-2 Hard Wired** – Wide range of installation options to add interference rejection at a variety of physical and electrical locations in the telephone wiring. Inside phone jacks, behind wall mounted telephones, throughout telephone system wiring. Crimp connectors..... **\$10.99**

## ALAN BROADBAND ZAP CHECKER



**185 Broadband Field Strength Bug Detector** – Indicates the presence of RF energy from 3 MHz to 5 GHz. Ideal for wireless installations, detection of covert devices (bugs), and detecting and locating undesirable signal sources such as interfering transmissions, RFI, noise and leakage. Internal fixed antenna, switch enabled silent vibrator mode for in-pocket detection. Analog meter and bright LED display. Uses (2) AA batteries. Dim: 2.1" w x 1.25" l x 5" h; 5 oz ..... **\$159.99**

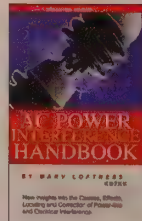
## INTERFERENCE SOLUTIONS

### ARRL RFI Book 2nd Edition



Advice on every type of radio frequency interference: automotive, television, computers, DVD players, audio equipment, telephones, power line noise, cable television interference, and RFI solutions for other electrical devices. **ARR 9892 \$29.95**

### ARRL AC Power Interference Handbook 3rd Edition



Revised, by Marv Loftness, KB7KK. New insights into the causes, effects, locating and correction of power-line and electrical interference. 18 chapters

**ARR 1103 \$34.95**

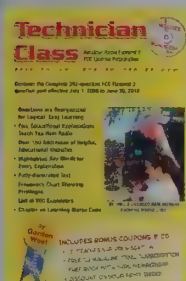




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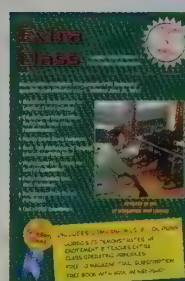
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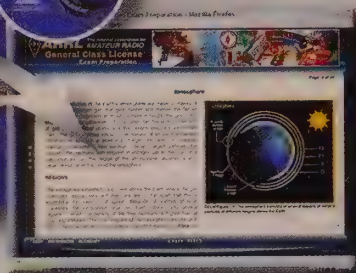
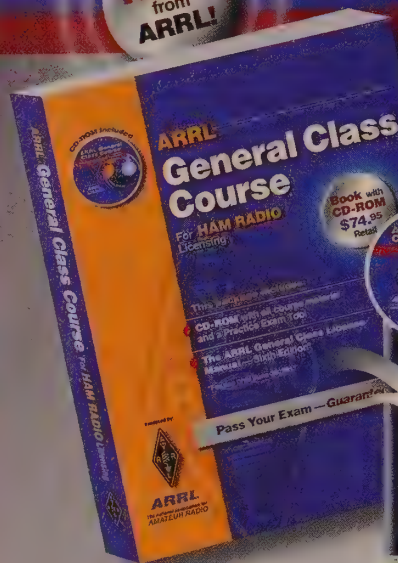
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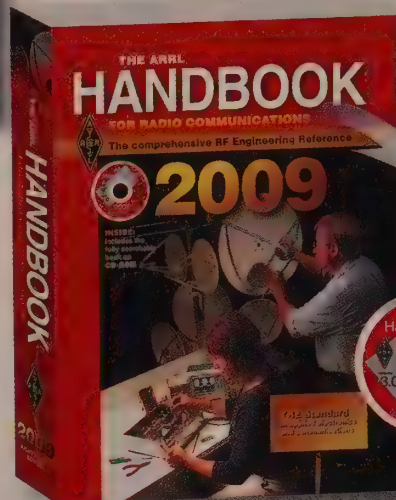
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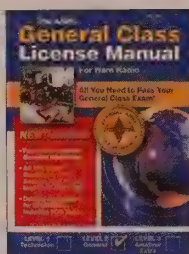


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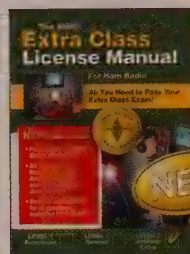
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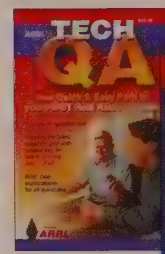
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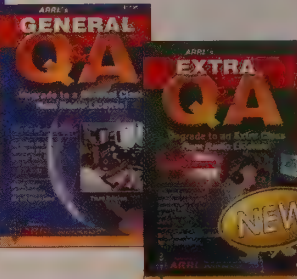
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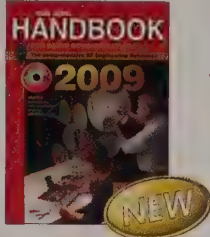




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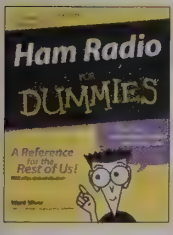


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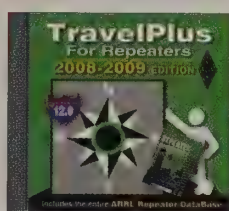
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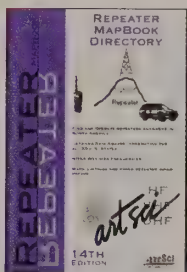
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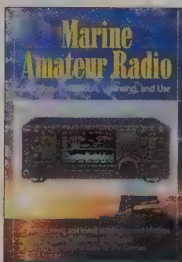


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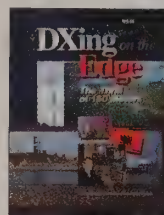


## DX COMMUNICATION OPERATION

### DXing on the Edge

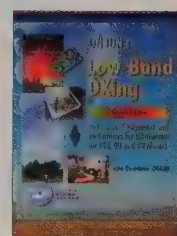
The Thrill of 160 Meters, by Jeff Briggs, K1ZM. Includes operating tips and descriptions for many practical antennas. Includes a CD with exotic, exciting QSOs made from prominent DX stations. Many photos and historical data from the early 30s to present ...

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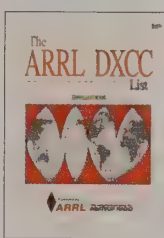


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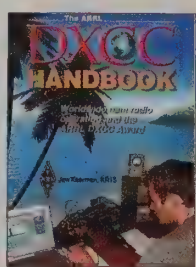
### The ARRL DXCC List February 2008 Edition

The Official DXCC source. Record the entities you've worked and QSLed. Complete listing of DXCC rules. Contains data about each entity on the DXCC List, deleted entities and the latest additions. Also included are the prefix cross-reference and list of international callsign series. Award descriptions and information about obtaining numerous DXCC items also featured. ....

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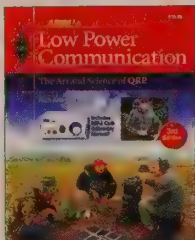


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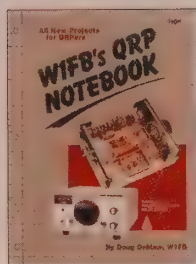
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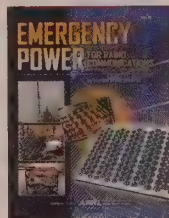
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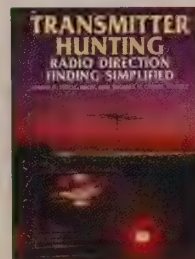
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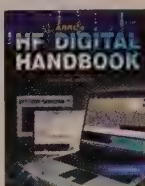


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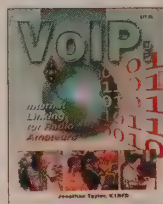


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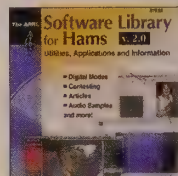
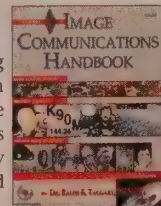
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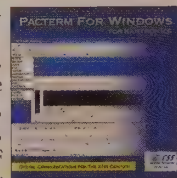
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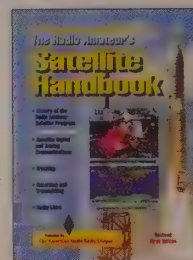


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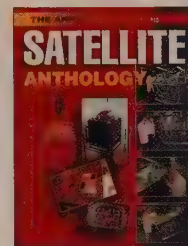
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## ANTENNAS



### Antenna Compendium 1

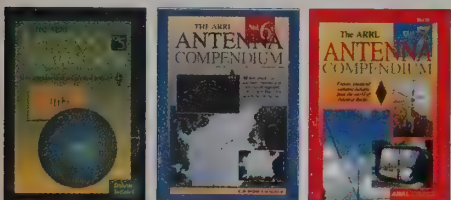
The premiere volume includes articles on a multi-band portable, quads and loops, baluns, the Smith Chart and more..... **ARR 0194 \$20.00**

### Antenna Compendium 2

Wide range of types and related topics, including innovative verticals, an attic tri-bander, antenna modeling and propagation ..... **ARR 2545 \$14.00**

### Antenna Compendium 4

Contains 38 articles covering a wide range of topics. There are simple, practical antenna projects, and theoretical treatments of complex arrays. Seven articles devoted to 80 and 160 meters, including large arrays. Articles on mobile work and portable or temporary antennas. .... **ARR 4912 \$20.00**



### Antenna Compendium 5 with software

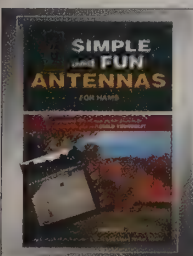
Baluns, HF beams, yagis and quads are just some of the subjects covered. Articles on antennas, transmission lines and propagation. Projects to build. Includes antenna modeling software. .... **ARR 5625 \$20.00**

### Antenna Compendium 6 with software

More articles on antennas, transmission lines and propagation. More projects. .... **ARR 7431 \$22.95**

### Antenna Compendium 7

Articles covering antenna related topics including measurements and computations, mobile and multibands, practical tips, propagation and ground effects. This volume includes even more articles on low-band antennas and operating, and great designs for mobile operation. .. **ARR 8608 \$24.95**

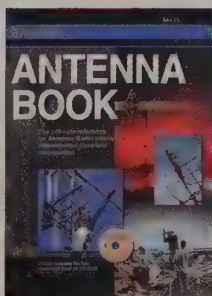


### Simple & Fun Ham Antennas

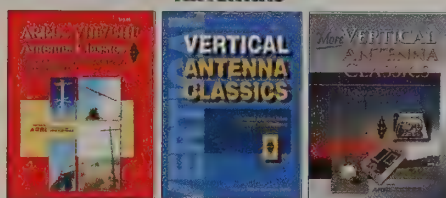
Lots and lots of real-world, practical antennas you can BUILD YOURSELF! 16 chapters on different types of HF, VHF antennas, masts and supports, towers and performance. 70 useful projects. **ARR 8624 \$22.95**

### ARRL Antenna Book, 21st. Edition

All the information you need to design your own complete antenna system. It's THE source of current antenna theory and a wealth of practical how-to construction projects. Use this book to discover even the most basic antenna designs (wire and loop antennas, verticals, and Yagis) and for advanced antenna theory and applications. Includes CD ..... **ARR 9876 \$44.95**



## ANTENNAS



### VHF/UHF Antenna Classics

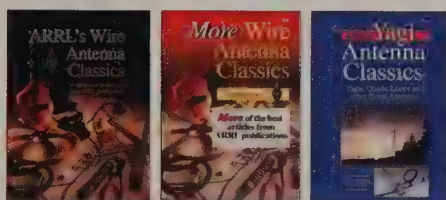
Ground planes, J-poles, mobiles, Yagis. Build a better antenna for an HT. Construct a 2 meter Yagi that rivals commercials. Includes projects from the 1980 to 2003 issues of QST..... **ARR 9078 \$14.95**

### Vertical Antenna Classics

Articles from QST and the Antenna Compendium series. Tips and techniques from QST's "Hints & Kinks." Includes vertical antenna theory and modeling, HF/VHF/UHF, directional arrays, radials, grounds and more..... **ARR 5218 \$12.00**

### More Vertical Antenna Classics

Designs for a variety of operating preferences, ground systems, portable antennas, phased vertical arrays and more..... **ARR 9795 \$17.95**



### Wire Antenna Classics

Wire antennas ranging from simple to complex. Find one to deliver the performance you want. Dipoles, broadband and multi-band dipoles, loops, collinear, rhombics, wire beams, vertically polarized and receive antennas are all featured, even tree-mounted antennas ..... **ARR 7075 \$14.00**

### More Wire Antenna Classics

Enjoy even MORE wire antennas! Filled with innovative designs from the pages of QST and other ARRL publications..... **ARR 7709 \$17.95**

### Yagi Antenna Classics

Collection from QST, QEX and others. Provides a historical perspective, novel and ambitious ideas, as well as computer-optimized designs. Chapters on mono/multi-banders, HF, VHF and UHF beams, computer modeling, masts..... **ARR 8187 \$17.95**



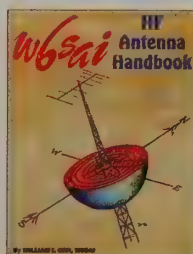
### Low Profile Amateur Radio, 2nd Edition

Operate your station under restrictive situations. Discussions and details for many real-life examples and techniques for a variety of low profile circumstances. Covenants, Conditions and Restrictions; Low-Profile and Disguised Antennas; Indoor Antennas; Operating Modes and Tips; Interference; Antenna Tuners; Low-Profile VHF/UHF Antennas; Mobile Operating. **ARR 9744 \$19.95**

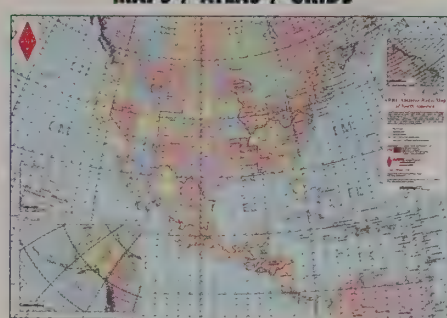
### W6SAI HF Antenna Handbook

Lots of inexpensive, practical projects that work. Great guide for constructing loops, yagis and vertical antennas.

**CQX W6SAIHANT \$19.99**

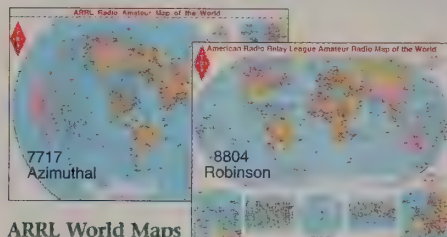


## MAPS / ATLAS / GRIDS



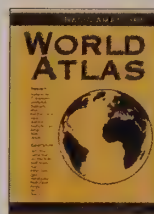
### ARRL Amateur Radio Map of North America

This large, colorful wall map features current geographic detail and labels, grid squares, call sign prefixes, boundaries and more. Great for all operators! Essential for contesters, WAS, VHF/UHF Century Club, and other award seekers. Also makes a great hurricane tracking map. Dim: 27 x 39 in., durable plastic laminated..... **ARR 8977 \$15.00**



### ARRL World Maps

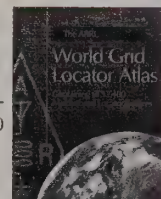
Each colorful map features current geographic detail and world-wide call sign prefixes. Azimuthal Projection is centered on the central USA and is useful for antenna beam headings. Dim: 27 x 39 in., laminated. Robinson Projection is the popularized classroom-style projection map. Dim: 26 x 34.5 in., laminated..... **ARR 7717/8804 each \$15.00**



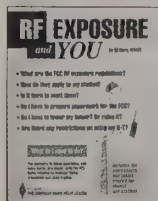
### Radio Amateur's World Atlas

16 pages of colorful maps covering the Americas, West Indies, Asia, Japan, Australia, Pacific Ocean, Europe, Africa and Antarctica... **ARR 5226 \$12.95**

**The ARRL World Grid Locator Atlas**  
Information on the locator system and maps showing all 32,400 Maidenhead grid squares. **ARR 2944 \$5.95**



## HEALTH / SAFETY



### RF Exposure and You

Hams must comply with the FCC RF Exposure requirements. The FCC Form 610 includes an RF safety certification that must be signed. This book tells how to meet the requirements. Over 200 tables and graphs. **ARR 6621 \$22.95**

### Lightning Protection and Grounding Solutions

How to install an effective grounding and protection system to guard communications equipment against destructive lightning surge energy. **PLY LPGS \$20.00**





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Ham Radio Accessories

Antenna Accessories

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## RF POWER AMPS

**RF Amplifier Classics**  
Amplifiers for the HF, MF, VHF and Microwave bands. Practical designs and construction details for classic tube and solid-state amplifiers from 5W to 1.5kW.

**ARR 9310 \$19.95**

## HISTORY / ARCHIVES

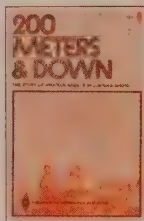
### Vintage Radio

A collection of articles published in QST magazine describing vintage equipment and interesting points in the history of Amateur Radio that will evoke a sense of nostalgia. Articles were published between 1977 and 2003, including classic QST advertisements from the 1920s through the 1970s... **ARR 9183 \$19.95**



### 200 Meters & Down

The Story of Amateur Radio by Clinton B. DeSoto. Chronicles the exciting evolution of Amateur Radio from the pioneers who perfected the wireless art through the technical advances of the mid-1930s... **ARR 0011 \$12.00**



### ARRL Periodicals on CD

Complete text and illustrations for all articles in QST, QEX and NCJ by year. Include search engine, book-marking, windows printing, software project source code, PC board etching patterns and clipboard support.

Info by title, name, call sign, keyword, web. Windows™ 3.1 minimum. Individual CDs by year 1995 to 2007..... each **\$19.95**

**ARR 5579 (1995) • 6109 (1996) • 6729 (1997) 7377 (1998) • 7881 (1999) • 8209 (2000) 8632 (2001) • 8802 (2002) • 9124 (2003) • 9396 (2004) 9574 (2005) • 9841 (2006) • 1204 (2007)**

### Lost Users Manuals

Lost the manual for your HT or Mobile rig? Did you purchase a used radio and it did not come with a manual? Do you have the manual but still can't work the radio quickly? "LOST USERS MANUALS" contains operating instructions for all the popular amateur radios and scanners.



Manuals for: ICOM, Yaesu, Kenwood, Alinco and other manufacturers' radios. Each radio is given 2 to 5 pages of drawings, charts and programming instructions. The book contains over 140 pages of instructions..... **ART LOSTUSERS CLOSEOUT \$19.95**

## Need a Manual?

No more hunting through flea markets, calling multiple dealers, or photo copying a neighbor's. You can get most instruction and maintenance manuals directly from the manufacturers' websites.

- [www.alinco.com](http://www.alinco.com)
- [www.icomamerica.com](http://www.icomamerica.com)
- [www.kenwoodusa.com](http://www.kenwoodusa.com)
- [www.yaesu.com](http://www.yaesu.com)

## INTERFERENCE SOLUTIONS

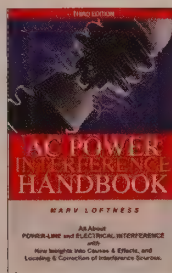


**ARRL RFI Book 2nd Edition**  
Advice on every type of radio frequency interference: automotive, television, computers, DVD players, audio equipment, telephones, power line noise, cable television interference, and RFI solutions for other electrical devices..... **ARR 9892 \$29.95**

### ARRL AC Power Interference Handbook 3rd Edition

Revised, by Marv Loftness, KB7KK. New insights into the causes, effects, locating and correction of power-line and electrical interference. 18 chapters.

**ARR 1103 \$34.95**

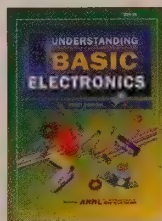


## ELECTRONIC INFO

### Understanding Basic Electronics

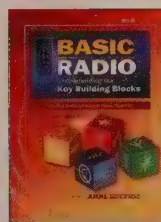
For beginners and those who want to brush up on electronic principles. Clear, simple explanations and loaded with illustrations.

**ARR 3983 \$29.95**



### Basic Radio

A comprehensive introduction to radio - what it does, and how it does it. The key building blocks of radio: receivers, transmitters, antennas, build-it-yourself projects to turn theory into practice and helping reinforce important subjects. .... **ARR 9558 \$29.95**



### Introduction to Radio Frequency Design

The functional methods of frequency design using mathematics as needed to develop intuition for RF circuits and systems. Many simple circuit models prepare you to actually design HF, VHF and UHF equipment..... **ARR 4920 \$39.95**

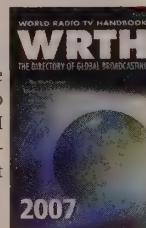


## RADIO / TV RECEPTION GUIDES

### 2007 World Radio TV Handbook

The world's most comprehensive and up-to-date reception guide to mediumwave, shortwave and FM broadcasting. Informational articles, operating hints and latest product reviews.

**WAT 059979 C/O \$9.99**



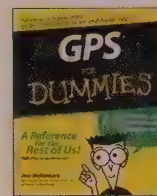
### 2009 PASSPORT to World Band Radio

Everything you need to know about tuning in shortwave stations, countries, frequencies and times. Includes informative reviews on popular worldband radios, many antennas, and expanded station address lists. 592 pages.... **IBS 2009 \$22.95**

## GENERAL / MISC INFORMATION

### GPS for Dummies

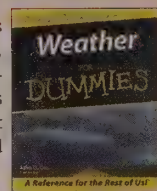
Make the most of your portable GPS and all its features. Pick the right receiver for you, create a map from your front door to the relatives six states away, venture into new places with confidence, and explore the treasure hunting sport of GEOCACHING. **WIE GPSDUMMIES \$21.99**



### Weather for Dummies

Easy-to-understand explanations about meteorological concepts, from storms, jet streams, tornadoes and El Niño. Experiments and activities you can do at home. Plus insight on smog and the greenhouse effect.

**WIE WXFORDUMMIES \$21.99**



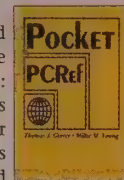
### Pocket REF, 3rd Edition

A handy pocket-sized reference containing 768 pages packed full of tables, maps, formulas, constants and conversions. A concise all-purpose guide covering chemistry, physics, electrical, electronic formulas, math, metric conversion, mechanical data, hardware, mapping, worldwide telephone area codes, tools, currency, metals, weights, perpetual calendar, science and more. **SEQ POCKETREF \$12.99**



### Pocket PC REF, 13th Edition

A concise PC reference book with hard to find information and a 3700 name PC Industry 'phone book. Plus: Troubleshooting; Wiring; Connectors and Pinouts; Commands for WinXP/2000/UNIX; Startup Programs and Processes; Network Wiring and Standards; File Name Extensions; Over 1,000 acronyms and definitions; CPU Processor Specs and ID; Configurations and Updates for 1000's of Hard, CD-ROM, Magneto Optical, Tape and Floppy Drives; Audio, POST and HTTP Error Codes; DOS Commands; ASCII Codes/Numerics; PC phone; Country domain names, more! ..... **SEQ POCKETPCREF \$15.99**



## MFJ PUBLICATIONS

- 30** Golden Classics of Yesteryear..... **\$14.95**
- 3036** Packet Operators Handbook..... **14.95**
- 3101** Fox Hunt Adventure..... **9.95**
- 32** Packet Made Easy..... **12.95**
- 3211** Study Guide: Tech Class License..... **12.95**
- 3213** Study Guide: General Class License..... **12.95**
- 33** Modern Amateur's Mobile Handbook..... **14.95**
- 3301** Trouble Shooting Antennas & Feedlines..... **14.95**
- 3302** 73 Dipole & Long Wire Antennas..... **14.95**
- 3303** 73 Vertical, Beam & Triangle Antennas..... **14.95**
- 3305** Antennas and Transmission Lines..... **19.95**
- 3400** Morse Code: Breaking the Barrier..... **19.95**
- 3502** Solid State QRP Projects..... **12.95**
- 3504** FET Principles and Projects..... **16.95**
- 3506** Ferromagnetic Core Design & Apps..... **19.95**
- 3507** Practical RF Design Manual..... **19.95**
- 3509** Ladder Crystal Filters..... **19.95**
- 36** Shortwave Listener's Guide..... **12.95**
- 37** Ham Radio Communications Circuit Files..... **12.95**
- 38** Easy-Up Antennas..... **19.95**

## Current issues of Monthly Magazines

- CQ Magazine..... **CQX CQ \$5.99**
- Electric Radio..... **ELE CTRICRADIO 3.85**
- Monitoring Times..... **GRV MONITORTIMES 5.95**
- Nuts & Volts..... **NUT NUTS&VOLTS 5.50**
- Popular Communications..... **CQX POPCOMM 5.99**
- QEX Magazine..... **ARR QEX 5.00**
- QST Magazine..... **ARR QST 4.99**



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## Cobra CB RADIOS



**19DX IV** Compact 40 channel Mobile CB Radio  
New compact design; Full function LCD display; Instant channel 9/19; RF gain/squelch control; Combination S/Rf meter; Channel Indicator; TX indicator; CB/PA switch; Mobile bracket.  
Dim: 4.5" w x 1.75" h x 7.25" d; 2.1 lbs ..... **\$49.99**



**148GTL** 40 channel AM/SSB CB Radio - Full featured, 4 full Watts (AM) and 12W (SSB) RF power. Dual conversion AM receive; Adjustable Dynamike; Illuminated S/Rf/SWR meter; Switchable ANL/NB; PA capability; three-position tone switch; 2-color RX/TX indicator; Digital LED readout; PA. Dim: 2.3" h x 7.8" w x 9.2" d; 5 lbs ..... **\$149.99**



**25LTD** AM Mobile CB Radio - 40 channels; 4W RF output; Adjustable Dynamike boost; Instant channel 9; RF gain control; Switchable noise blanker; Dimmer; CB/ANL/PA switch; RX/TX LED; Tactile controls. Dim: 8.6" d x 6.3" w x 2.2" h; 4 lbs **\$89.99**

**25WXNW ST** AM Mobile CB Radio - Same as LTD but with NightWatch™ & Weather ..... **\$109.99**

**29LTD** AM Mobile CB Radio - Same look and basic features as the 25LTD but includes: Delta tune; Switchable ANL/Noise blanker; CB/PA switch; Antenna warning LED indicators; S/Rf/SWR meter. Dim: 8.6" d x 6.2" w x 2.2" h; 4 lbs ..... **\$99.99**



Night View Day View

**29NW** AM Mobile CB Radio - Same look and basic features as the 29LTD but no Delta tune; Includes NightWatch™ fully illuminated display; Variable dim control; Tone control; Instant channel 9/19. Dim: 8.6" d x 6.3" w x 2.2" h, 4 lbs .. **\$119.99**

**29WXNW ST** AM Mobile CB Radio - Same look and basic features as the 29NW but: has SoundTracker™ system, 7 NOAA weather channels with Weather Alert tone..... **\$129.99**



**HH-ROAD TRIP** 40 Channel CB Handheld - Keep in vehicle for emergencies, inter-vehicle communications and to receive the latest weather information. SoundTracker® system cuts noise up to 90% and 4W of power gives up to 4 miles range. High/low power switch. Operates on 9 "AA" alkaline or NiCads or from vehicle battery with the included DC cord and plug. Includes magnet mount mobile antenna.

Dim: 6.75" h x 2" w x 1.75" d **\$79.99**

**75WX ST** Compact/Remote CB Radio - 40 CB channels and 10 Weather channels. A remote box installs out of sight and connects to the microphone with controls and full featured LCD display. Dual watch and full channel scan; Instant channel 9; Four memory channels; Key lock. Dim: 4.2" h x 2.7" w x 1.8" d; 1.85 lbs ..... **\$99.99**



## MICROPHONE



**HGM-77** Noise Cancelling Microphone - Designed for CB users who want to step up from their stock microphone. Features 9' High-Flex™ cord, Wire mesh grille, Heavy-duty ABS shell and 4-pin connector. **\$24.99**

## RECOMMENDED CB ANTENNAS

### COBRA

**HGA-1000** - Base loaded magnet mount mobile antenna with coax and connector..... **\$29.99**

### HUSTLER

**HQT** - A 55 in. top loaded whip with Mirror Mount bracket. Comes with 12 ft. cable with PL-259 connector. Chrome with a white coil. **\$29.99**

**HQ-27M** - A 55 in. top loaded whip with Trunk-lip Mount. Comes with 15 ft. cable and PL-259 connector. Chrome with a white coil..... **\$39.99**

**1C-100** - 44 in. base loaded magnet mount white antenna (**1C-100B** is black) ..... each **\$23.99**

**1C-11** - 42 in. base loaded trunk mount white antenna (**1C-11B** is black) ..... each **\$14.99**

### LARSEN

**NMO-27C** - Base loaded mobile, less mt. **\$35.99**

**NMO-TLP** - Low-profile trunk mount for the NMO-27C. 17 ft. coax and PL-259 ..... **\$32.99**

**NMO-MMR** - Magnet mount for NMO-27C. Comes w/12 ft. coax & PL-259 ..... **\$36.99**

### MIDLAND

**18-258** - Through Window Mount Mobile CB Antenna. Power transfers thru-the-glass to outside element without wires. Overall length: 25-1/4 in. Includes coax & SO-239 connector ..... **\$19.99**

### SOLARCON

**A-99** - Base Antenna. Three-piece fiberglass design uses a 1/2-wave over a 1/4-wave section. Tunable, 3dB gain. Length: 17 ft. 8 in..... **\$79.99**

**GPX-1** - Ground plane kit for the Solarcon A-99 antenna. Adds 30% more power gain and produces a lower angle of radiation ..... **\$59.99**

### WILSON

**W-1000 Series** - 5 ft. base loaded mobile antenna. Available in three mount configurations. All come with 18 ft. cable and PL-259 connector.

**W-1000 ROOF** - thru-hole mount ..... **\$59.99**

**W-1000 TRUNK** - trunk mount ..... **\$66.99**

**W-1000 MAGNET** - magnet mount.... **\$76.99**

**LITTLE WIL** - 38 in. base loaded magnet mount antenna ..... **\$39.99**

## Uniden CB RADIOS



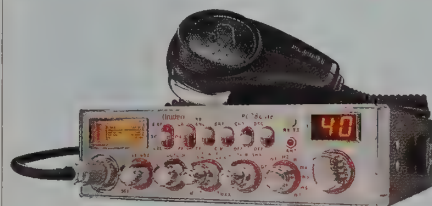
**PC-68XL** 40-Channel CB Radio - Front microphone jack; Backlit controls; S/Rf meter; Channel indicator; Dynamic squelch control; TX/RX indicator; Instant channel 9; RF and microphone gain; PA mode. Dim: 7.6" w x 8.9" d x 2.6" h; 3 lbs. **\$44.99**

**PC-68LTW** - Same basic features as the PC68XL but with NOAA weather and alert ..... **\$49.99**



**PC-78XL** 40 Channel AM Mobile - PLL synthesized; Instant channel 9; Dynamic Squelch Control; Microphone and RF gain; Delta tune; Noise blanker; Automatic noise limiter; PA/CB switch; Dimmer control; TX/RX LEDs; Antenna warning LED. Dim: 7.25" w x 8.63" d x 2.38" h; 4 lbs .... **\$64.99**

**PC-78LTW** - Same basic features as the PC78XL but with NOAA weather and alert ..... **\$69.99**



**PC-78 ELITE** 40-Channel CB with Ergonomic Pistol Grip Microphone - Combines CB and a 7 channel Weather Radio with alert. Enhanced night vision display; Instant Channel 9; S/Rf/SWR meter; RF and microphone gain; Delta tune. Switches for: S/Rf/CAL/SWR, CB/WX/PA, NB/ANL, dimmer and dynamic squelch control.

Dim: 7.6" w x 8.9" d x 2.6" h; 4 lbs. 3 oz. **\$79.99**

**PC-68 ELITE** 40-Channel CB - Same looks and features as PC-78 Elite but no Delta tune and SWR. Dim: 6.2" w x 5.4" d x 2.1" h; 3 lbs. 11 oz. **\$59.99**

### PRO-538W



**PRO-510XL** Compact 40 Channel AM Mobile Incorporates state-of-the-art microelectronics into a sophisticated Euro-styled 2-way CB unit. Front mounted microphone, ANL Switch, S/Rf LED meter. Dim: 4.5" w x 1.4" h x 7.5" d; 3 lbs .... **\$39.99**

**PRO-520XL** Compact 40 Channel AM Mobile Looks like 510XL. Instant channel 9 access; 4-segment S/Rf meter; TX LED; LED channel indicator; RF gain; PA switch; Automatic noise limiter.

Dim: 4.5" w x 6.8" d x 1.38" d; 1 lbs. 10 oz. **\$54.99**

**PRO-538W** 40 Channel AM Mobile - Includes 3 weather channels. RF gain control; PA/CB switch; Instant channel 19; TX/RX indicator; Front speaker. Dim: 6.8" h x 2" w x 8.3" d; 2.6 lbs ..... **\$59.99**

® After Uniden Mail In Rebate though 12/31/08



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Ham Radio  
Accessories

Antennas

Antenna  
Accessories

Publications

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Radios

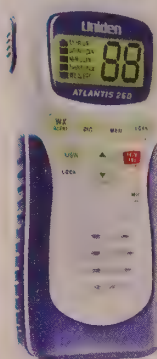
Weather

Audio / Video  
& Tools

AES  
Information

# uniden

## MARINE RADIOS



**ATLANTIS-250** Handheld 2-Way VHF Marine Radio All US, international and Canadian marine channels. Durable, reliable for any marine activity. Waterproof (JIS4/CFR46 rating); 5/1W, switchable; Instant channel 16/9; Triple watch; All N.O.A.A. channels with Weather Alert; Backlit LCD and keypad; Memory channel scan; Flexible rubber antenna; NiMH and alkaline capability ..... **\$99.99**

**VOYAGER** Ultra Compact VHF Handheld Marine Radio - All USA, Canadian and international channels; All N.O.A.A. channels with S.A.M.E. WX alert; Triple Watch Plus™; Channel 16/9; Memory scan; 1/5W transmit; Backlit keypad and LCD; Rubber grips and seal; Flexible antenna. Meets JIS7 waterproof specifications. Comes with rechargeable Li-ion battery; AC/DC adapter and charging cradle. Dim: 3.8"h x 2.4"w x 1.3"d; 8.8 oz. **\$169.99**



**MHS-350** Handheld Marine 2-Way VHF Radio All USA/international and Canadian marine channels All N.O.A.A. weather channels with weather alert; S.A.M.E. (during a NOAA weather or emergency alert, a code will alert you to severe conditions in your immediate area); 1/5W output; Triple Watch Plus™ (monitor channel 16/9, another user selectable channel, plus WX alert); Large backlit LCD; Rubber grips and seal. Meets JIS7 waterproof specifications. **CLOSEOUT \$119.99**



**SOLARA-DSC** 25W VHF Marine Radio - Full-featured, now includes DSC. All USA/ international channels; Instant channel 16; 10 weather channels; Selectable 1/25W output; High visibility LED display; Front mounted speaker for improved sound quality; Transmit LED indicator; Weather resistant housing, microphone and connector ..... **\$99.99**



**OCEANUS-DSC** Full Featured VHF Marine Radio - Ultra-compact, rugged construction saves space, allows for convenient mounting, and withstands the harshest conditions. All USA/international/Canadian marine channels, N.O.A.A. weather with scan and alert. Triple Watch Plus™ - monitor emergency channel 16 and 9, another user selectable channel plus weather alert; Quik Command™ one-touch channel 16/9 key on the durable, rubber grip microphone; Backlit keypad; Memory scan; 1 or 25W transmit; LCD and dimmer; External speaker jack; One switch PA operation..... **\$139.99**



**UM-525** 25W Marine VHF Radio with Loud Hailer - All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring and NOAA emergency/weather alert with S.A.M.E. Bright 3 in. (diagonal) backlit LCD display; Built-in 30W loud hailer with intercom, PA and all pre-programmed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with DSC polling capabilities; Speaker microphone with one-touch channel 16/9 key and up/down channel select ..... **C/O \$149.99**



**UM-625C** 25W VHF Marine Radio with Loud Hailer - All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring; and NOAA weather alert with S.A.M.E. Bright 2.2 in. (diagonal) daylight viewable Color TFT display that is viewable from any angle in sunlight. Rugged construction and highest rated receiver performance (85dB intermod nom.); built-in 30W loud hailer with intercom, PA and all pre-programmed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with all DSC polling capabilities; Speaker mic. with one-touch channel 16/9 key and up/down channel select. **C/O \$219.99**

**ICOM MARINE RADIO**



**IC-M72** Marine VHF Handheld More Power, now 6 Watts; Covers All International, USA, Canadian and Weather channels; Auto scan function (starts when no signal received) Auto WX scan and WX Alert function; Instant channel 9 & 16; Simple add/delete TAG scanning; Wide Angle backlit LCD; Battery life indicator and auto power saver; Submersible 4.9 ft for 30 minutes. Large capacity 2000mAH Lithium-Ion Battery. Impressive audio. Includes desktop charger, AC adapter, antenna, belt clip and hand strap. Dim: 2.06"w x 4.90"h x 1.8"d; 9.9 oz ..... **\$199.99**

Shakespeare®

4187

## MARINE ANTENNAS

**4187** Ratchet Mount - Stainless steel. 4-way ratchet design with handle for deck or bulkhead mounting. Standard 1 in. x 14 male threads..... **\$39.99**

**396-1** Center-fed 1/2-wave Coaxial Sleeve Antenna - A Basic one-section, 5 ft., 3dB antenna designed to reduce signal fading when working in rough seas. Widely used by the Coast Guard. Rated for 50W and 5 MHz bandwidth. Shakespeare white fiberglass; Brass and copper elements; Deluxe chrome-plated brass ferrule; 15 ft. RG-58 cable with PL-259. Use 4187 ratchet mount..... **\$69.99**

**420** Skipper™ Center-fed 1/2 Wave Coaxial Sleeve Antenna - Economical, a good basic one-section, 5 ft. 3dB antenna for steady, day-to-day cruising in calm to moderate seas. Includes a polycarbonate lift/lay deck mount, leveling plate and hardware. Rated 50W and 5 MHz bandwidth. White Shakespeare fiberglass; Brass/copper elements; Polycarb ferrule; 15 ft. RG-58 cable with PL-259... **\$99.99**

**5101** Centennial™ End-fed Antenna with Matching Stub - High-end features in an 8 ft. antenna with a brass element and a smooth, high gloss, polyurethane finish that won't turn yellow in the sun. Rated 50W, 5 MHz bandwidth with 6dB gain. One section; Brass and copper elements; Chrome-plated brass ferrule with standard 1 in. x 14 thread. Includes 15 ft. RG-58 cable with PL-259 connector. Use with 4187 ratchet mount.... **C/O \$49.99**

**5206-C** End-fed Antenna, Matching Stub - Economical, lightweight and self-supporting. An 8 ft. one-section antenna for good communications where long range is not the predominant factor. Rated 50W, 3 MHz bandwidth and 6dB gain. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 15 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount..... **\$59.99**

**5202** Collinear-phased 5/8 Wave Elements - A rugged, professional quality 8 ft. one-section antenna featuring a heavier duty radome and tough brass and copper construction for maximum efficiency and extra range. Rated 50W, 3 MHz bandwidth and 6dB gain, DC grounded. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 20 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount .. **\$109.99**

**5215** Squatty Body™ VHF Marine Antenna - A favorite with Sailboat owners, this light weight, low profile, stainless steel antenna was specially designed for masthead mounting. One-section, end fed 1/2-wave, 36 in. long. Rated 50W, 7 MHz bandwidth and 3dB gain. It features a hermetically sealed, tin-plated copper wire coil, stainless steel body and whip. SO-239 connector and stainless steel "L" bracket mount..... **\$49.99**



## AIRCRAFT RADIOS

**ICOM**

### A-24 NAV/COM Handheld

Easy to operate featuring a large, clear LCD. The large keypad provides user friendly operation. Stores the last 10 channels used and is easy to recall those channels by pushing the "flip-flop" recall buttons. The DVOR mode shows the radial to or from a VOR station and the CDI mode shows the course deviation to/from a VOR station. ANL (auto noise limiter) for noise reduction. RX: 108-136.975 MHz, WX: 161.650-163.275 MHz, TX: 118-136.975 MHz, Output power: 5W PEP, 1.5W carrier. Dedicated 121.5 MHz emergency key. NOAA weather channels. Record and play back conversations with the built-in recorder. Convenient for carrying with supplied belt clip. Water resistant, IPX-4 grade, allows safe operation in rain. 200 alphanumeric memories; PC programmable. Includes long life 1650mAh battery pack. Dim: 2.1" w x 5.1" h x 1.4" d; 15.2 oz. **\$325.99**



## YAESU

### VXA-710 NAV/COM Handheld

Rugged compact cast magnesium case. Receives and transmits on COM frequencies for important communications, and also receives and displays NAV frequencies (including CDI). For non-aviation use it also receives FM broadcast, NOAA Weather and Business Radio Service (BRS) frequencies. Features include: 160 memory channels; Skip scan; Split channel operation; Alpha-numeric display; Back-lit keypad and display; One-touch emergency frequency access; Built in LED status/emergency light and Automatic noise limiter. Dedicated 121.5 MHz Emergency Frequency access key. A Full 5W TX output power (1.5W carrier). Totally waterproof and submersible. PC programmable. Includes 1400 mAh Li-ion battery pack, wall charger, antenna, belt clip, and headset cable. Dim: 2.25" w x 3.75" h x 1.25" d, 9.9 oz. .... **\$349.99**



## FRS/GMRS RADIOS

**MIDLAND**

### GXT-650VP4 FRS/GMRS HTs

Features 22 channels (7 FRS/GMRS, 7 FRS and 8 GMRS) and including Weather Alert with automatic alert for severe weather and hazard information, 24/7. Has maximum FCC allowable 5W of power for up to 16 mile range in open areas with little or no obstructions. Hi/Med or Low power settings. Water Resistant; Auto Battery Save; Battery Low Indicator; Roger Beep. Uses 4 "AA" batteries (not included). Dim: 4.1" h x 2.4" w x 1.4" d. (Pair of Radios including Mic. Headset) **Closeout \$79.99**

**ICOM**

### IC-F21GM FRS/GMRS Radio

15 channels (7 shared FRS channels). Power: 4W with range up to 5 miles depending on the terrain. Preprogrammed channels allow out-of-box operation, only a simple license required. Dim: 2.1" w x 5" h x 1.5" d, 10.6 oz. .... each **\$129.99**



**GRE**

## ANALOG & DIGITAL SCANNERS



PSR-100

PSR-300

PSR-500

**PSR-100 Handheld Scanner** - Frequency coverage 29-54, 108-174 & 380-512 MHz. Five pre-programmed bands: Marine, Fire/Police, Air, Amateur and Weather. Priority channel. 200 memories in 10 banks, SAME Weather alert with 10 FIPS area code memories and Skywarn function. Key lock for safety. Ten-digit channel and frequency display with all function indicators. LCD backlighting. PC programmable with cloning capability. External 9V DC power charge jacks, 3.5mm stereo earphone and cloning jacks. Includes flexible BNC antenna, belt clip, AC adapter, alkaline battery holder and rechargeable battery holder. Requires four AA cells (not supplied). Dim: 2.48" w x 5.7" h x 1.57" d; 0.48 lbs. .... **\$99.99**

**PSR-200 Base Scanner** - Affordable, with innovative features. Frequency coverage 29-54, 108-174, & 380-512 MHz. 200 memories and five pre-programmed bands for Marine, Fire/Police, Air, Amateur and Weather. Priority channel. Weather capability features SAME technology with 10 FIPS area memories and a Skywarn function. Scanning at 45 channel per second and sweeps at 80 steps per second. Up or Down search. Backlit LCD. Supports programming by a PC and unit-to-unit cloning. Rear panel 3.5 mm earphone jack. Includes a screw-in telescopic antenna and AC adapter. Dim: 8.27" w x 6.89" h x 2.36" d; 1.54 lbs. .... **\$99.99**

**PSR-300 Handheld Triple Trunking Scanner** - Latest technology includes coverage of the new 700 MHz band and upgradable CPU firmware to support future band changes. Frequency coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Frequency steps include: 3.125, 5, 6.25, 7.5, 8.33, 10, 12.5 and 25 kHz. Has 1000 memory channels in 10 banks for trunking bank and channel combined conventional mode memory provides multi-tracking of Motorola (type I, II and hybrid analog system), EDACS wide and LTR. Includes CTCSS and DCS sub-audible encoded squelch modes. A spectrum sweep function detects nearby unknown signals. Five pre-programmed band searches are available for Marine, Fire/Police, Air, Amateur and Weather. Weather alert capability features SAME receiving with 10 FIPS area memories plus a Skywarn function. Scans at 60 channel per second and sweeps at 75 steps per second. Signal strength indicator on the LCD. Includes a flexible BNC antenna, belt clip, AC adapter, alkaline battery holder and rechargeable battery holder. Requires four AA cells (not supplied). Dim: 2.56" w x 5.7" h x 1.65" d; 0.53 lbs. .... **\$199.99**

**PSR-400 Triple Trunking Desktop/Mobile Scanner** - Loaded with features and wide coverage including the new 700 MHz band. Frequency coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Multiple tuning steps. Has upgradable CPU firmware in support of future rebinding. Ten banks and 1000 channel memories for trunking bank and channel combined conventional mode memory. Multi-tracking of Motorola (Type I, II and hybrid analog systems), EDACS wide and LTR. CTCSS and DCS sub-audible encoded squelch. Spectrum sweep function detects nearby unknown signals. Five pre-programmed band searches for Marine, Fire/Police, Air, Amateur and Weather. The weather alert capability features SAME receiving with 10 FIPS area memories plus a Skywarn function. Scans at 60 channel per second and sweeps at 75 steps per second. Signal strength indicator on the LCD. Backlit keypad. Includes a BNC telescopic antenna, mounting bracket, AC adapter and DC power cord. Dim: 7.28" w x 2.16" h x 5.31" d; 1.74 lbs. .... **\$199.99**

**PSR-500 Handheld Analog/Digital Trunking Scanner** - Uses an intuitive Object Oriented User Interface for ease of use. Frequency Coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Spectrum sweeper function seeks out nearby RF sources. Supports Motorola Analog, EDACS, LTR and Digital APCO (9600 bps) trunking systems. CTCSS and DCS subaudible squelch coding. Weather alert function with SAME technology and SKYWARN features. The 1800 memories may be structured to preferred bank sizes. Save complete radio configurations within the radio for recall into main memory as needed. Supports Talkgroup and individual call monitoring. With P25 digital systems, Automatic Adaptive Digital Tracking adapts the digital decoder to the modulation format, then analyzes the signal and adjusts any subtle changes caused by multipath or fading without manual intervention. The Large backlit LCD displays four lines by 16 characters. Backlit keypad and programmable, multi-colored super bright LED; program the color for the channel received. Operates from four AA cells (not included) or external 9V DC. Includes BNC antenna, USB PC cable, belt clip and two alkaline and rechargeable battery cases. Dim: 2.56" w x 5.71" h x 1.65" d; 0.53 lbs. .... **\$499.99**

**PSR-600 Advanced Trunking Scanner** - Frequency coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Includes 1800 memories that may be dynamically structured to bank sizes you prefer. The large backlit LCD displays four lines by 16 characters. Backlit keys. Supported trunking systems include Motorola Analog, EDACS, LETS and Digital APCO (9600 bps). Weather alert function, SAME technology and Skywarn features. A spectrum sweeper function seeks out nearby RF sources. Operates from 13.8 VDC. Includes telescopic BNC antenna, USB PC Interface Cable, AC adapter, DC power cable and DIN-E kit. Dim: 7.4" w x 2.4" h x 5.6" d; 2.7 lbs. .... **\$499.99**

PSR-200

PSR-400

PSR-600



Used / Demo

Ham Radios

Ham Radio Accessories

Antennas

Antenna Accessories

Publications

Other Radios

Weather

Audio / Video & Tools

AES Information



News as it happens! Tune in Police, Fire, Public Service, Ham Radio, Military, Weather, Racing and more! A selection of Handhelds, Base/Mobiles to fit your needs.

## uniden Bearcat Compact Handheld Scanners



**BC-72XLT Compact Handheld Scanner** (Great for NASCAR) – 100 Channels/10 Banks; Covers the most interesting "action" bands where you can hear Police, Ambulance, Fire, Amateur Radio, Public Utilities, Weather, and more! Covers 25-54, 108-174, 406-512 MHz; 10 Programmable Search Ranges find unlisted frequencies in use in your area; 6 Preprogrammed Service Searches preset in separate Police, Fire/Emergency, Aircraft, Ham, Marine (by channel) and Weather banks to make it easy to locate specific types of calls; Close Call™ RF Capture Technology instantly tunes to signals from nearby transmitters; Backlit Display for low light Conditions; Priority Scan to scan the channels you have designated as priority channels; Delay helps prevent missed replies during 2-way conversations; 2 AA battery operation: Alkaline or rechargeable (charges while in the scanner). Dim: 2.75" w x 4.5" h x 1.75" d; 6 oz. .... **\$99.99**

**BC-95XLT Handheld Scanner with 800MHz Coverage** – 200 Channels/10 Banks; Covers the "action" bands 25-54, 108-174, 406-512, 806-956 (excluding Cellular); 10 Programmable Search Ranges; 6 Preprogrammed Service Searches; Close Call™ RF Capture Technology; Priority Scan; Delay; Backlit Display. Dim: 2.75" w x 4.5" h x 1.25" d; 6 oz. .... **\$119.99**

**BC-246T Handheld Scanner** – 1600 Channels typical/2500 maximum; TrunkTracker III Technology (Motorola, EDACS and LTR systems); Covers 25-54, 108-174, 216-225, 400-512, 806-956 & 1240-1300 MHz (excluding Cellular); Dynamically Allocated Channel Memory makes It easier to program and use without wasting channels; Close Call™ RF Capture Technology; Alpha Tagging for Systems, Channel Groups, Channels, Search Ranges, and SAME Groups; S.A.M.E. Weather Alert (Specific Area Message Encoding) – during a NOAA Weather or Emergency Alert, a code for your specific location will alert you to severe conditions in your immediate area; 10 Custom Search Ranges; Preprogrammed Service Searches; Automatic Repeater Reverse automatically tunes to the Repeater Output Frequency when It finds a transmission on a common Input frequency; DCS/CTCSS; Rapid Decode instantly detects and displays the Subaudible Tone; Pager Skip eliminates transmissions on common pager Frequencies during Search and Close Call Operation; Channel Alert indicates when specified channels become active; Backlit Display adjustable to turn on when Squelch opens, or any key is pressed (or Manually); PC Control: includes a PC Cable to transfer information from your computer to scanner. Dim: 2.5" w x 4.5" h x 1.75" d; 6 oz. .... **\$219.99**

**BCD-396T Compact Scanner** – Continuous Band Coverage 25 MHz to 1.3 GHz (excluding UHF TV and Cellular); 6000 Dynamically Allocated channels; 400 cities preprogrammed; TrunkTracker IV (Motorola APCO 25 Digital, Motorola, EDACS, LTR); Close Call™ RF Capture Technology; S.A.M.E. Weather Alert; Fire Tone-Out; Alpha Tagging; 100 Quick Key System; Audio AGC; Automatic Digital Threshold; Search with Scan; DCS/CTCSS Rapid Decode; PC Control (Software Included). Dim: 2.4" w x 5.35" h x 1.22" d; 0.6 lbs ..... **\$519.99**

**SC-230 Racing Sport Handheld Scanner with Race Track Operation** – Covers: 25-54, 108-174, 216-225, 400-512, 806-956, 1240-1300 MHz (excluding Cellular); 1600 Channels/2500 maximum; Dynamically Allocated Channel Memory; Race Track Operation; Close Call™ RF Capture Technology; Alpha Tagging; Quick Key System Access; S.A.M.E. Weather Alert; 10 Programmable Search Ranges; 11 Preprogrammed Service Searches; Priority Scan; Attenuator cuts down on interference from strong, nearby signal sources; Delay; Backlight on Squelch; 2 AA battery operation, Alkaline or rechargeable (batteries can be charged while in the scanner); PC Interface provides both programming and remote control of scanner features from a PC (software included); On-Air Programming (separate transmitter required) makes programming multiple units a snap – just transmit the driver information using a PC and transceiver, and all scanners update at once. Dim: 2.9" w x 4.6" h x 1.4" d; 7.8 oz. .... **\$199.99**

## uniden® Base/Mobile Scanners



BC-340CRS  
BC-370CRS

**BC-340CRS CRS Clock Radio Scanner with 100 Channels in 10 Banks** – Covers: 25-54, 108-174, 406-512 MHz. Service Search; Weather Scan; AM/FM Radio; Alarm Clock with Snooze; Public Safety Scanner ..... **\$99.99**

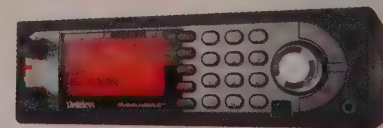
**BC-370CRS CRS Clock Radio Scanner with 300 Channels in 10 Banks** – Covers: 25-54, 108-174, 225-380, 406-512 MHz, 806-956 MHz (excluding cell). All Hazard alert; Atomic Clock; Service Search; Weather Scan; TV Audio 2-13; AM/FM Radio; Alarm Clock w/Snooze; Public Safety Scanner .... **\$139.99**



**BC-350C 800 MHz Base and Mobile Scanner** Coverage: 25-54, 108-174, 406-512 and 806-956 MHz (excluding cellular). 6 Preprogrammed service banks; 13 preset search bands; 100 user-programmable memories; 100 channels-per-second scanning speed; Search lockouts; luminescent backlit LCD screen. Includes mounting bracket, AC adapter, DC power cable and vehicle power plug. Dim: 5.2" w x 1.6" h x 6.5" d; 1.6 lbs. .... **\$99.99**



**BCT-8 BearTracker™ Warning System with 800 MHz TrunkTracker III** – Coverage: 25-54, 108-174, 400-512 and 806-956 MHz (excluding cellular). 250 channels in 5 Banks, 5 priority channels; Trunking (Motorola® Analog, EDACS®/EDACS® SCAT, LTR®); Service Search/highway patrol frequencies preprogrammed by state; 100 channels per second scanning with search lockouts; Priority scan; BearTracker™ Warning System alerts to highway patrol frequency activity within 3 miles; Backlit LCD. Dim: 7" w x 2.5" h x 6" d; 4.9 lbs ..... **\$179.99**



**BCT-15 BearTracker™ Mobile Trunking Scanner with GPS Support** – Alerts you to activity on Highway Patrol link frequencies within about 3 miles of your location. Close Call™ RF Capture Technology - tunes to signals from nearby transmitters. 2500 Dynamically Allocated Channels; Up to 400 Systems; 100 System Quick Keys; TrunkTracker III - EDACS, MOTOROLA, E.F. JOHNSON; Location-Based Scanning; Temporary Lockout; Dangerous Crossing, Dangerous Road and POI Alert; Public Safety Scanner ..... **\$239.99**



# uniden



**BC-998T** 500 Channel Base/Mobile Scanner TrunkTracker III; Covers: 25-54, 108-174, 216-512 and 806-956 MHz (excluding cellular); 10 banks/50 channels; AutoStore; TrunkTracking™ (Motorola, EDACS & LTR); 1000 talk group ID's (10 lists/10 Banks); DCS/CTCSS; Conventional and trunked search; Programmable search and delay; Weather channels with S.A.M.E. alert; Priority scan. Includes AC adapter, DC Power Cable with auto power plug. Dim: 10.5" w x 7.3" d x 3.5" h; 3.8 lbs. .... **\$209.99**



**BCD-996T** Mobile Trunking Scanner with GPS Support & APCO-25 - 6000 Dynamically Allocated channels; Location-Based Scanning; APCO-25 Digital; 100 System Quick keys; Dual-Color Display; Temporary Lockout; Dangerous Crossing, Road and POI Alert; DIN-E Mounting; Multi-Site Trunking; Close Call™ RF Capture technology; Public Safety scan. Dim: 7.2" w x 5.9" d x 2.2" h; 3.4 lbs. .... **\$519.99**



**ALINCO**  
AMATEUR RADIO'S VALUE LEADER

## WIDE BAND RECEIVERS

### DJ-X7T Wideband Receiver

Covers 100 kHz to 1299.995 MHz (less cellular) in AM, FM wide and FM narrow modes. The large, illuminated, easy-to-read LCD display shows frequency information, the operating mode and memory channel. Features include: 1000 memory channel, four user-selectable antenna

choices (SMA flexible whip, internal AM and SW bar antennas, or the the earphone cable). Comes with an AC charger that can charge the supplied Lithium Ion battery and lets you listen at the same time. The DJ-X7T can also clone to other DJ-X7 units through an optional cable. Dim: 2.4" w x 4" h x 0.7" d, 3.7 oz. .... **\$179.99**

### DJ-X30T Wideband Receiver

Covers 100 kHz to 1299.995 MHz (less cellular) in AM, FM wide and FM narrow modes. FM stereo mode is available via the earphone jack. 1000 alphanumeric memories in 10 banks, and 5 scan modes. Listen to AM, FM and TV stations, the shortwave world, aircraft, business communications, the ham bands, fire, public safety, traffic and more. A selectable illuminated LCD keyboard system allows you to easily enjoy many advanced features, including whether or not you want the keypad mounted on the radio. A menu of selectable parameter settings and the easy-to-use design enables customizing and programming frequencies to suit your individual preferences. Uses "AA" batteries. Includes belt clip, hand strap, face panel, SMA antenna. Dim: 2.28" w x 3.89" h x 1.24" d, 5.3 oz. .... **\$209.99**



## ICOM HANDHELD RECEIVERS



**R-5-SPORT-06** Super Wideband Handheld Receiver Covers 495 kHz to 1309.995 MHz (cell blocked). Listen to AM/FM broadcast radio, police, fire, military, aircraft, amateur bands, and more. Preprogrammed TV and SW memories. Weather alert. Large, backlit LCD shows frequency, operating and battery status, signal strength and alphanumerics of the 1250 memories (200 auto-write scan and 25 scan edge pairs). DMS; CTCSS/DTCS; Internal bar antenna; PC programmable; Cloning; Weather resistant; AA battery case; DC jack.

Dim: 2.25" w x 3.4" h x 1" d; 6 oz. .... **\$174.99**



**R-20-06** Wideband Handheld Receiver - Covers 0.15 to 3304.99 MHz (cellular blocked), 1250 memories. Perfect for AM/FM radio, TV sound, monitoring boaters, aviation, conventional public safety and many other commercial services. Multiple scan functions with 100 ch./sec. scan and VSC which opens squelch only on modulated signal detection. Dual watch; Built-in 4-hour IC audio recorder; Auto squelch; CTCSS/DTCS & DTMF decode; RF gain and Attenuator; Noise

Limiter; AF filter; Bandscope; Auto Frequency Control function; Offset capability for semi-duplex channel monitoring; Back-lit keypad and dot-matrix LCD with programmable channel names (up to 8 characters); Internal bar antenna for MF reception, BNC antenna connector; CI-V PC control capability; 11-hour Lithion battery.

Dim: 2.28" w x 5.5" h x 1.22" d. .... **\$524.99**



### RX-7-05 Wideband Receiver

- Covers 150 kHz - 1300 MHz (cellular blocked) with AM, FM Narrow and FM Wide modes. Has a total of 1650 scannable alphanumeric memories. An independent search button automatically searches pre-programmed frequency ranges. Simple, 4-way cursor buttons provide quick navigation to menus and settings. Pre-set memory channels as well as a new memory management system will allow grouping of frequencies into your favorite categories or groups. It features a large, backlit dot matrix display. High speed scan & search at 100 channels per second, CTCSS/DTCS decode and VSC (Voice Squelch Control). Built-in RF-gain control, attenuator and auto power save. Earphone antenna for FM broadcast receive & ferrite bar antenna for AM. Rain resistant. External DC power jack. Supplied with 3.7V @ 1100mAh Li-Ion battery, charger and belt clip. Dim: 2.25" w x 3.03" h x 0.9" d; 7.1 oz. **\$299.99**

Please call/web for current price & promotions.

## COMMUNICATION RECEIVERS

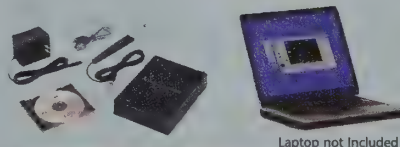


**R-75** HF + 50 MHz All Mode Communication Receiver Covers 0.03 to 60 MHz, all modes, 101 memories. Conventional tuning and direct input via keypad. Alphanumeric readout with bar S-meter; DSP; Two-level preamp; Noise blanker; Twin passband tuning; High/low-Z antenna inputs; Filter options. Operates from 13.8V DC with optional OPC-869 DC cable or 110V with supplied AC adapter. Dim: 9.5" w x 3.75" h x 9" d; 6.6 lbs. **\$629.99**



**R-9500-02** Super Performance Multiple Function Wideband "measuring" Receiver - Covers 0.005 to 3335.000 MHz (cellular blocked), in USB, LSB, CW, FSK, WFM & AM modes with 1020 alphanumeric memories. Multiple scanning functions. Many normal and wide spectrum scope functions display on the the 7-inch wide multi-function TFT LCD. Five roofing filters before the first amplifier, dual independent 32-bit floating point DSP processors and digital I.F. filter. Noise Blanker; Voice synthesizer; Digital Voice recorder; USB connector; Receive assist functions. Dim: 16.6" w x 5.8" h x 13.3" d; 44 lbs. .... **Special Order \$13500.00**

## WIDE BAND PC RECEIVER



Laptop not Included



Remote Control Head with R-1500-05 & R-2500-05

**PCR-1500-25** Computer Controlled Wideband Receiver/Scanner - Connects to your Windows® 98SE/ME/2000/XP or Vista™ PC via a USB cable. Coverage from 0.01-3300 MHz (less cellular). Modes of reception include AM, FM-Wide, FM-Narrow, SSB & CW. (CW & SSB up to 1300 MHz only). Up to 25 channel activities can be observed on the multi-channel monitor screen at a glance. Audio can be stored on the PC in WAV format. Includes CTCSS/DCS, pocket beep, IF shift, auto memory write, AFC, AGC, WX alert, 24 digit DTMF tone decoder and up to 2700 memory channels per file. An optional plug-in DSP unit provides Noise Reduction & Audio Notch Filter. Includes AC adapter, whip antenna, USB cable & software CD. All models include BON CS-4.5 Software with purchase.

Dim: 5.75" w x 1.6" d x 8.1" d; 2.6 lbs. .... **\$469.99**

**R-1500-05** - Same as PCR-1500-25, but w/Remote Control Head ..... **\$569.99**

**PCR-2500-25** - Similar to the PCR-1500-25, but features dual receive and is upgradable with the UT-122 digital decoder, UT-106 AF DSP unit, UT-108 DTMF decoder or UT-118 D-Star digital voice decoder. .... **\$669.99**

**R-2500-05** - Same as PCR-2500-25, but w/Remote Control Head ..... **\$829.99**





**AR-8200 MK III-B Compact Wideband Receiver** - Covers 0.5-3000 MHz (cellular blocked) in FM-W, FM-N, super narrow FM, AM-W, AM-N, SSB & CW modes. 1000 alphanumeric memories in 20 banks of 50 channels. Scan and search. High stability TXCO; Dual VFOs and twin frequency readout; Alpha display; Band scope; Bar signal meter; CTCSS decode; 20 second Record/Playback and voice inverter; Noise limiter; Attenuator; Computer control and programming capability. Includes: (4) NiMH 1500 mAh "AA" rechargeable cells (also operates on external 12VDC), AC charger, belt-clip, auto cigarette lighter power cord, removable AM & telescopic whip antennas. Dim: 2.4" w x 5.7" h x 1.0" d; 0.75 lbs ..... **\$599.99**



**AR-8600 MK II-B Wideband Receiver** - Its extremely versatile, use virtually anywhere. Coverage: 530 kHz to 3000 MHz (cellular blocked). All modes, including SSB and with programmable tuning steps in multiples of 50 Hz in any mode and TXCO stabilized. 1000 memories (20 banks); Programmable scan and search. Multi-section back-lit LCD; Numeric keypad, Navigation keys; Rotary tuning control and separate controls for volume and squelch; Band scope; Alphanumeric text comments; Write protect/keypad lock; AFC; Noise limiter; Attenuator; Flash-ROM memory; Slot card sockets; BNC socket for 10.7 MHz; RS-232 port for computer control; 12 VDC. Includes: AC power supply, telescopic whip antenna, medium wave (AM) plug-in antenna and manual. Dim: 5.9" w x 2.2" h x 6.9" d; 4.9 lbs ..... **\$899.99**



**AR-5000A+3B Wideband Receiver** - Ideal for professionals, top-end hobbyists, government departments and armed forces for its amazing sensitivity and strong signal handling capability. Covers 10 kHz to 2.6 GHz (less cellular) in AM, FM-N, FM-W, LSB, USB and CW modes with 2000 multi-function memories in 20 banks of 100 memories. Six bandwidths of 3, 6, 15, 30, 110 and 220 kHz. Sophisticated multiple scanning functions. Noise Blanker, AFC and AM synchronous detection. Operates on 12-16VDC @ 1A. Dim: 8.5" w x 4" h x 10.2" d, 7.8 lbs ..... **Special Order \$2699.99**



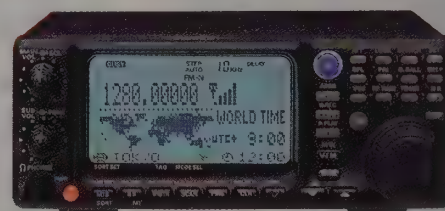
**LA-380 Wide Band Active Loop Antenna** - A wide range, 10 kHz to 500 MHz single loop active receiving antenna. Only 1 ft. in diameter. Five selectable presets and ranges. A built-in high-gain 20 dB amplifier for 10 kHz to 250 MHz and variable tuning from 3 to 40 MHz. Fixed tuning from 60 kHz to 3 MHz and 40 to 50 MHz. A BNC output jack with a 3.3 ft. BNC to BNC patch cable is provided. Operates from 12V DC or 110V using the supplied AC wall adapter. .... **\$379.99**



#### VR-500 PACK Mini-Receiver

Covers 100 kHz to 1300 MHz (cellular blocked) in CW, SSB, AM/FM wide and narrow modes. Includes AM/FM broadcast, HF SW to 16 MHz, VHF and UHF TV bands, VHF AM aircraft band, plus commercial and public safety frequencies. Keypad entry; 1000 memory channels, 100 "skip" and 10 search memories, 100 dual watch memories; Priority. Uses two "AA" batteries but also comes with FNB-79 NiCad battery and NC-60B wall charger. Dim: 4.2" h x 2.2" w x 1" d; 7 oz ..... **\$199.99**

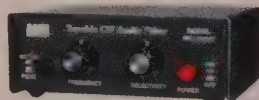
## Wideband YAESU RECEIVERS



#### VR-5000 Multi-mode Scanning Receiver

Covers 100 kHz to 2.6 GHz (cellular blocked) in AM, FM-N, FM-W, LSB, USB and CW modes with VFO or direct keypad frequency entry and 2000 memories (10 banks) with alphanumerics. Dual receive; Versatile scanning system with automatic memory loading; Bandscope; World clock with time zone map. Optional accessories available are **DSP-1** DSP unit and **DVS-4** digital voice recorder. Dim: 7.1" w x 2.8" h x 8" d; 4.2 lbs ..... **\$599.99**

## MFJ RECEIVING AIDS



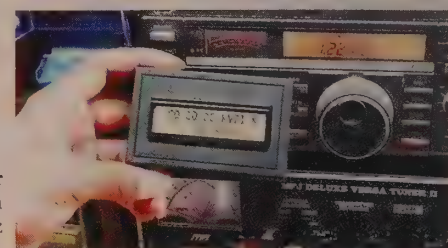
**751B Super Tunable SSB/CW Audio Filter** Eliminates interference by zeroing in on signals with tunable PEAK/NOTCH filters. Tunes 300 to 3000 Hz with variable bandwidth from 80Hz to nearly flat. Up to 50 dB of notch depth. Dim: 4.75" w x 1.75" h x 5" d. Uses 12 VDC or MFJ-1312D adapter **\$89.99**



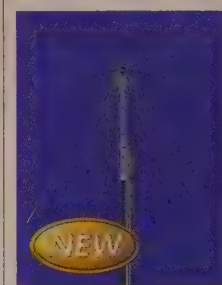
**752C Dual Tunable SSB/CW Filter** - Comprised of two tunable audio filtering systems to clarify and remove interference from SSB, AM, CW or RTTY signals. The primary filter is a two-section, four pole variable filter with PEAK, NOTCH, LOW PASS, and HIGH PASS functions. The second (auxiliary) filter is a single section two-pole PEAK or NOTCH filter. Variable bandwidth from 40 Hz to almost flat; Adjustable notch depth to 70 dB; Selectable NOISE LIMITER. Input for two rigs. Dim: 10" w x 2" h x 6" d. Uses 12 VDC or 110V with the MFJ-1312D adapter ..... **\$109.99**



**1026 Noise Cancelling Filter** - Plug in your station antenna and place a 60 dB NULL on noise and interference before it gets into your receiver. Handles lightning crashes, power line noise, dimmers, power tools, TV birdies and more. Change from a NULL to PEAK to enhance weak signals. Usable as an adjustable phasing network to combine two antennas for directional patterns. Built-in active antenna with telescoping whip. Works on all modes from 1.5 to 30 MHz. RF sensed T/R switch with adjustable delay bypasses transceiver on transmit. Uses 12VDC or 110V with MFJ-1312D adapter. Dim: 6.5" w x 1.5" h x 6.2" d ..... **\$189.99**



**461 Morse Code Reader** - Just place this tiny pocket-size portable code reader near your receiver's speaker. Then watch Morse code signals turn into solid text messages as they scroll across an easy-to-read LCD display. No cables to hook-up, no computer, no interface, no other equipment needed. Makes making copying high speed CW a breeze. Automatic Speed Tracking locks on and tracks CW speed to decode high and low speeds; Instant Replay can review the last 140 characters. Uses a High Contrast 2-line LCD Display with 32 large 1/4 in. characters. A serial port lets you display CW text on a monitor using a computer and terminal program. When its too noisy for its microphone pickup you can connect the MFJ-461 to your receiver with a cable. Fits in your shirt pocket with room to spare. Smaller than a pack of cigarettes and weighs less than 5.5 oz. Uses a 9-Volt battery (not included) ..... **\$89.99**



**ICOM**  
**AH-8000**

Multi-Purpose  
Discone Antenna

Provides wideband omnidirectional signal reception from 100 to 3300 MHz, and can also be used to transmit on 144, 430, 1200 and 2400 MHz Ham bands; up to 200 Watts. Only 3 ft. high and 2.1 lbs. Attaches with two supplied U-bolts to any 1 to 2 inch mast Comes preassembled with 49 ft. cable with type-N connectors on each end. .... **\$249.99**





# *Designed for the track...*

## NEW IC-RX7 Stylish Scanner with Smart Interface

Sleek, fast, and able to hit the track even during a rain storm, the 'RX7 is Icom's first receiver to achieve the IPX4 water resistant rating. Besides its sleek and aerodynamic design, it's what's under the hood that will really put you in the race — power and performance! A newly developed user-interface allows you to zip around the track and frequencies, qualifying you for pole position with Li-ion battery performance that will have your friends hitting the pits way before you. Join the winning circle and visit AES today!

### Features:

- 0.150 - 1300.000 MHz\*
- AM, FM, WFM
- 1650 Alphanumeric Memory Channels
- High Speed Scan and Search
- Computer Programmable (Optional CS-RX7)
- Water Resistance Equivalent to IPX4

# *...and good for everyday use.*

During recent "on-track" tests, the 'RX7 passed expectations with flying colors! Here's what some enthusiasts had to say:

"We were able to listen at all three races, including practice and qualifying without recharging!"

"The ability to select a channel by the car number made listening to the races even more fun!"

"We were able to see the car number, the driver's name, and the race type all at the same time!"



\*Frequency specs may vary. Refer to owner's manual for exact frequency specs.  
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All specifications are subject to change without notice or obligation. 30074

  
**ICOM**





**GS-350DL DELUXE** – Offers exceptional value and great reception of AM, FM and international shortwave. Incorporates an analog receiver with digital display of frequency and clock. A single-conversion superheterodyne circuit design, receives continuous shortwave from 2.9 - 27.4 MHz, covering all 12 international shortwave broadcast bands (11, 13, 16, 19, 22, 25, 31, 41, 49, 60, 75 and 90 meters). A wide and narrow switch on the front panel allows you to narrow the radio's bandwidth to reduce adjacent channel interference. A new SW/AM frequency lock circuit improves stability to reduce drift. There is a built-in 12/24 hour clock with 90 minute sleep timer. Uses a built in telescopic antenna for FM and shortwave plus a built in ferrite bar antenna for AM. On the back panel there's a 75 ohm antenna jack for FM and terminals for AM/SW wire antenna and ground. Side left and right line level outputs and a stereo/mono switch and a stereo earphone jack for private listening. A 4 inch speaker provides solid sound. Comfortable carrying handle. Requires (4) D or AA cells (not supplied), includes an AC adapter. Dim: 12.5" w x 7" h x 3.5" d; 3 lbs, 9 oz. .... **\$99.99**

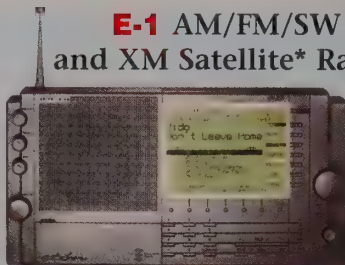


**GM-300PE AM/FM Shortwave Radio** – Weighs less than 5 ounces and small enough to fit in your pocket making it a perfect travel companion. Covers AM, FM-stereo and 7 Shortwave bands (49, 41, 31, 25, 22, 19 and 16 meters). The telescoping and ferrite antennas provide great AM/FM reception for when camping, hiking, listening to sports, or just relaxing. Analog tuning with digital display that shows frequency, time, sleep time and symbols for sleep timer and alarm activation. Includes protective pouch, belt clip and stereo earbuds. Powered by (2) AA batteries. Dim: 2.5" w x 4.5" h x 0.75" d; 4.5 oz. .... **\$29.99**



**G-1100 AM/FM SW Radio** – It's small enough to fit into your pocket, and capable of receiving AM/FM and 10 shortwave bands. Analog tuning with digital frequency LCD. Clock with alarm/snooze. Stereo via headphones. Uses (2) AA cells, includes protective pouch and earbuds. Dim: 5.12" w x 3.15" h x 1.14" d; 7 oz. .... **\$49.99**

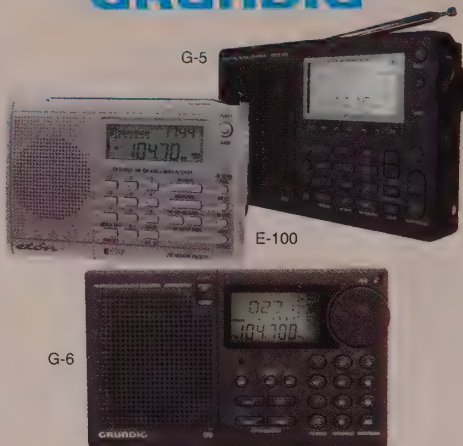
## E-1 AM/FM/SW and XM Satellite\* Radio



\*XM Radio requires a subscription and XM antenna, not included

Covers 100 kHz–30 MHz LW, MW, SW & FM (88-108 MHz) in AM, FM, SSB/CW modes, plus XM Satellite Radio\* providing over a 100 channels of Music, News, Talk, and Sports programming. Dual conversion with digital PLL tuner and synchronous detector. Variable rate tuning knob, Direct keypad, Up/down buttons or Auto-tuning, Memory scan of with 500 user programmable alphanumeric plus 1200 user definable memories. Illuminated, 5.5 inch dot-matrix display; LCD S-meter; I.F. passband tuning; Dual programmable clock (WWV auto-setting); On/off timers; Stereo at headphone jack. Uses (4) "D" cells or included AC adapter. Dim: 13.1" w x 7" h x 2.5" d; 4.2 lbs ..... **\$499.99**

GRUNDIG



**E-100 Compact Portable Digital Radio** – Covers: AM (520 to 1710 kHz), FM (87 to 108 MHz) and Shortwave (1.711 to 29.995 MHz). Tunes via keypad entry or fine-tuning knob. It stores up to 200 of your favorite stations. Built-in digital clock with dual timers and snooze. Signal and battery indicator. Stereo/Mono switch; Tuning bargraph; Backlit LCD; Earphone jack; 3.0 VDC input jack; Flip stand. Includes wrist strap, protective case, and stereo earbuds. Powered by (2) AA cells. Dim: 5" w x 3" h x 1.25" d. .... **CLOSEOUT \$89.99**

**G-5 World-Class Portable Radio** – Covers AM, FM and shortwave. Dual conversion AM/SW circuitry for exceptional sensitivity and image rejection. Tuning is via auto-scan, manual scan, conventional tuning knob or direct keypad entry. Includes S.S.B. (Single side-band) reception and FM stereo is available through the earphone jack. 700 channel memory capacity with memory scan and auto tuning storage. 24 hour clock with alarm and sleep timer. Line Output jack for a tape recorder or external audio amplifier. The LCD display can be illuminated three different ways. Includes: Local/DX Switch, Wide-Narrow selectivity and external antenna jack. Requires (4) AA cells (not supplied), or supplied AC wall adapter/charger. Built in battery charger. Carrying strap, and carrying pouch. Dim: 6.625" w x 4.125" h x 1.125" d; 12.2 oz. **\$149.99**

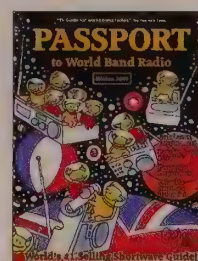
**G-6 FM/AM/Aircraft Band/Shortwave Portable Radio** – The Aviator. Covers AM, FM, Aircraft Band (117-137 MHz) and Shortwave (1.711 to 29.995 MHz). Advanced dual conversion, includes Single Side Band (SSB) reception. Digital tuning with digital frequency readout (LCD) and 700 memories with 4 character page naming. Tune in to AM, FM, the VHF aircraft band or shortwave frequencies easily with direct keypad entry. Or use the AUTO tuning feature to browse stations and stop on the next available frequency. You can also use "DS" tuning to get a taste of what's playing—stop on the next available frequency for five seconds at a time. International clock and wake-up alarms. Power source: 2 AA batteries (not included); 2 AA rechargeable Ni-MH batteries (not included); AC adapter (included). Dim: 4.9" w x 3" h x 1.2" d; 7.3 oz ..... **\$99.99**



**FR-250 Emergency Radio** – Receives AM (530-1710 kHz), FM (88-108 MHz) and 7 shortwave bands. Powered from a built-in hand-crank power generator with rechargeable Ni-MH battery pack, (3) AA batteries (not included) or AC adapter (not included). Built-in triple LED flashlight, emergency siren and cell phone charger. Main tuning knob with a precise fine-tuning control. Built-in 2.5 inch speaker and rear panel 3.5 mm earphone jack. Built-in antennas: telescopic for FM/SW, AM ferrite bar. Dim: 6.5" w x 6" h x 2.5" d; 1.2 lbs. .... **\$49.99**



**FR-400 Emergency Radio** – An affordable portable that receives AM (530-1710 kHz), FM (88-108 MHz), VHF TV audio and 7 NOAA weather channels. Versatile – powered from the crank generator which charges the supplied NiMH cells, (3) AA cells (not supplied) or 4.5 VDC from the included 120V AC adapter. Cranking at two turns per second for 90 seconds will provide 40-60 minutes of operation. Built-in the side of the radio is a triple LED light. Two white LEDs provide illumination, and a blinking red LED is for signaling. Additionally, there is a loud siren function. Three rear panel jacks are provided for earphone output, 4.5 VDC input and phone charger output. The FR-400 has the capability of recharging certain cell phones using included cellular power adapters. Includes a black canvas carry case, AC adapter, owner's manual, Red Cross Disaster Preparedness Guide. Dim: 8.7" w x 4.5" h x 2" d; 1.3 lbs. .... **C/O \$44.99**



## 2009 PASSPORT to World Band Radio

Everything you need to know about tuning in shortwave stations, countries, frequencies and times. Includes informative reviews on popular world and radios, many antennas, and expanded station address lists. 528 pages.

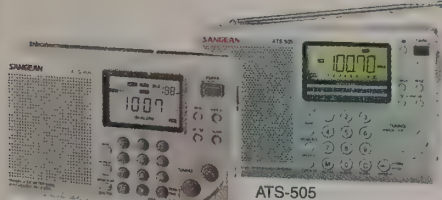
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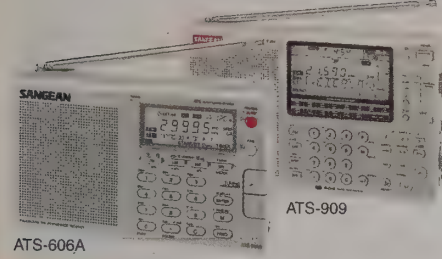
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**ATS-404** PLL Synthesized World Band Receiver Coverage: AM, FM (stereo with earphones) and 14 SW bands (2.3-26.1 MHz). Tune via Up-Down buttons, Automatic scan, Keypad or 45 Memory presets. Backlit LCD, 12/24 hour clock-timer with alarm and snooze. Low-battery indicator, lock, dial lamp switch, stereo-mono switch, tune LED, flip-out tilt-stand and 6VDC Jack. Includes carrying case and stereo earbuds. Uses (4) "AA" batteries. Dim: 6.5" w x 4" h x 1.5" d; 10 oz..... **\$79.99**

**ATS-505** PLL Digital World Radio - Coverage: LW, AM, FM (stereo via earphones) and SW (1711 kHz to 29.999 MHz). Tunes via Manual tuning knob, Up-Down buttons, Scan, Keypad, or 45 memories. SSB reception, auto preset System lock, tone control, local/DX switch, backlit LCD, 12/24 hour clock with alarm and snooze. Includes AC adapter, wind-up antenna, carry case & earphones. Uses (4) "AA" batteries. Dim: 8.5" w x 5.3" h x 1.6" d; 24 oz.. **\$129.99**



**ATS-606A** PLL World Band Receiver - Coverage: 153 kHz to 30 MHz, AM/FM with Manual or Keypad tuning. Backlit LCD, 54 memories, scanning fine tuning, dual digital clock-timer-alarm, FM stereo with earphones. Uses (3) "AA" batteries. Includes wind-up antenna, AC adapter and earbuds. Dim: 5.75" w x 3.5" h x 1.25" d; 1 lb..... **\$139.99**

**ATS-909** PLL World Band Receiver - Coverage: LW, MW, FM and SW (1711 kHz to 29.999 MHz). Tunes via: Manual knob, Keypad, Auto scan, Up-down tuning or Memory recall. SSB & CW reception, wide/narrow switch. Stores 307 presets in alpha memories. RDS display of station name/time. Clock with 12/24 hour time, (3) timers and sleep timer; displays 42 city times. Recorder output. Uses (4) "AA" batteries. Includes AC adapter, wind-up antenna, stereo earbuds and carrying case. Dim: 8.5" w x 5.375" h x 1.375" d; 1.9 lbs. **\$249.99**



**RCR-2** Digital Atomic Clock Radio - A combination of Atomic Clock function and sleek design. To ensure accurate time, the clock is adjusted by radio signals received from the U.S. atomic clock in Colorado. An easy-to-read LCD displays time, date, day of week, sleep, wake, and nap time. Dual alarms can be set and used independently with selectable days, with the option to wake to a radio buzzer alarm that starts softly, then gradually increases in volume. The AM/FM radio with ATS system locates stations and automatically sets up 14 preset memories. Dim: 7.5" w x 3" h x 5.25" d; 2 lbs..... **\$69.99**

# SANGEAN™



**PT-50** ProTravel World Receiver - This handsome ultra compact radio is for the globetrotting traveler. It features AM, FM, plus seven shortwave bands and FM Stereo reception with earphones. Two LCD window displays with built-in 12/24 hour clock that will wake you to radio or buzzer. Handy selector disc provides time in 24 world cities and your local time. Soft-leather case. Uses (2) "AA" batteries. Dim: 5" w x 3.4" h x 1.29" d; 9.5 oz.... **CLOSEOUT \$24.99**

**PT-80** ProTravel - This great looking travel radio has all the features a traveler will ever need. AM, FM, Longwave, and continuous shortwave coverage from 1711 to 29,999 kHz with SSB capability. Five tuning methods: Direct frequency access, Auto scan, Manual tuning, Memory recall from 45 presets, and Rotary tuning. Built-in 12/24 dual world time clock with alarm, snooze, and sleep timer. Snap-on leather case, AC adapter, earphone, and SW antenna included. Uses (4) "AA" batteries. Dim: 7" w x 4" h x 1.0" d; 1 lb. 2 oz..... **\$159.99**

**ANT-60** - Portable, wind-up, shortwave antenna for use with most shortwave receivers..... **\$13.99**



**WFR-20** Wi-Fi Internet Radio - You can listen to over 6000 Internet Radio stations (over 20,000 on-demand streams) in 250 locations from 60 genres. Operation requires a broadband wireless Internet (802.11b/g) or wired Ethernet (10/100 Mbps, RJ-45) network connection to connect into your wired or wireless home network. It also has a feature called "Network Music Player" which taps into the music stored on your PC using Windows® Media Player®. Supported sound formats include: MP3, WMA, AAC, AIFF, FLAC, Real Audio and AU. Features: 12 radio station presets; built in 12/24 hour clock with four alarm timers and sleep timer; bass and treble controls; three-line alphanumeric display. Intuitive menu system operates from single rotary control knob or full function remote control. Great sound from the acoustically tuned wooden cabinet housing two high quality 5 inch full-range stereo speakers. With the Network Music Player function a listener has access to their digital music library in any room in the house with no additional wires using their Wi-Fi network. Rear 3.5mm jacks for auxiliary input (iPod, MP-3 player, etc), earphone output, jack, line output jack and RJ-45 Ethernet. Note: does not tune conventional AM/FM broadcasts. Dim: 11.5" w x 4.5" h x 9.5" d..... **\$279.99**



**WR-1** High Fidelity Radio - This beautifully crafted AM/FM radio creates the warm rich tones normally found in only larger, more expensive home systems. A specially designed HI-FI circuit with 7W output, a custom made 3 in. speaker, and bass compensation combine in an attractive and acoustically corrected wood cabinet. No other radio will be found with a better sound quality at a comparable price. The walnut and black cabinet will accent any room. Headphone, record out & 12VDC input jacks. Dim: 9.4" w x 4.4" h x 6.6" d; 5.18 lb ..... **\$99.99**

## HD Radio™



**HDR-1** Tabletop HD Radio - Experience the new crystal-clear, distortion-free technology that gives you CD quality FM and FM quality AM reception. Covers: FM 87.5-108 MHz and AM 520-1710 kHz, has 20 memory presets, and features a wood grained, acoustically-tuned wooden cabinet that creates improved bass response and realistic acoustic reproduction. Includes a clock with sleep timer, snooze, and dual alarm with Humane Waking System - a choice of a soft gentle buzzer with gradually increasing volume, or your favorite local station. An AUX-input allows connecting a MP3 player. A IR Remote Control allows convenient operation of all functions and station scanning. The Backlit LCD Display shows Channel No., Channel Frequency, Ensemble Label, Service Label, Dynamic Label, Transmission Mode, Data Rate, Secondary Service Availability and Clock functions. Additional features: Auto Tuning System (ATS); Auto Preset System; FM RDS (TBC); Automatic Multiplex Re-configuration; Analog Only Mode; Split Audio Mode; Tone & Bass Control EQ Pre-sets; Multicast Capability; Program Associated Data (PAD); Hybrid and Full Digital Radio Reception; Headphone jack. Includes the AC power cord, external AM & FM antennas and remote. Dim: 4.5" h x 11.5" w x 7.5" d, 6 lb, 9 oz.... **\$199.99**



**HDT-1** Component HD Tuner - An FM (87.5-108 MHz) and AM (520-1710 kHz) HD Radio tuner with multi-casting reception. Add it to your home audio system, and experience the crystal-clear sound and expanded listening choices of HD Radio programming. Gain access to the new, free digital programming where you'll hear a big improvement in sound fidelity; FM approaches CD-quality, and AM sound rivals current FM quality. The HDT-1 also receives standard analog broadcasts. Text information such as station IDs, artist names, and song title plus a clock displays on the LCD screen. Features: 40 station presets (20 FM, 20 AM); External AM and FM antenna input; Signal strength meter; Backlit LCD display; RCA stereo line-level output drives your system amplifier; IR remote control. Dim: 16.9" w x 2.8" h x 10" d, 5.6 lbs **\$199.99**



**MFJ**

**8100W** Regenerative Shortwave Receiver  
Listen to international shortwave broadcasts and hams on SSB/CW and more. Covers all or part of the 75/80, 49, 40, 30, 31, 20, 19, 17, 16, 15 and 13M in 5 bands. Using just a 10 ft. wire makes worldwide stations come in loud and clear. Vernier drive tuning; Bandswitch; Volume/RF gain controls; Aluminum cabinet. Requires 9V battery, earphones or plug-in speakers.

Dim: 7" w x 2.5" h x 6" d; 1 lb. .... **\$109.99**

**8100K** Same, but in KIT form. .... **\$79.99**

### 306 AM/FM/SW

Converter - Works with your car radio to add 19, 25, 31, and 49M SW broadcast band reception. Simple install - plug-in the car's radio antenna, insert the 306 cable into the radio and connect 12VDC. Dim: 5" w x 1.5" h x 3.5" d ..... **\$109.99**

**SONY**

World Band Portables



**ICF-SW7600GR** - Covers 150 kHz to 29.999 MHz and 76-108 MHz FM with stereo via headphone jack. LCD readout. Tuning via: keypad, manual, auto scan and 100 memory scan. SSB/CW mode and AM synchronous detection; LED "tune" indicator; Dual time clock with sleep timer; Record jack; Tone switch; 3 inch speaker; External antenna jack; Uses four "AA" cells or 6 VDC. Wind-up antenna, wrist strap, case. Dim: 7.6" w x 4.75" h x 1.3" d; 22 oz.. **\$159.99**

## CLOSEOUTS



**ICF-SW11** Compact Analog Portable - Coverage: LW, MW, FM and 9 SW bands. Analog tuning with LED tuning indicator; FM stereo via headphone jack; 2-1/4 inch speaker; DC input jack; Flip stand and wrist strap. Uses two "AA" batteries or 3 VDC. Dim: 6.5" w x 3.75" h x 1.3" d; 12 oz.... **CLOSEOUT \$49.99**

**ICF-SW35** Digital Portable - PLL synthesized, covers LW, MW, FM and 2250 kHz to 26.1 MHz. Tunes via: UP/DOWN buttons, 50 memory presets or memory scan. FM stereo via headphone jack; Dial illumination; Sleep button; Lock switch; 9/10 kHz MW step switch; 2-1/4 inch speaker; Attenuator; Tone; Flip-stand. Uses 2 "AA"s or 4.5 VDC. Cloth carry case, wrist strap. Dim: 6.7" w x 4.5" h x 1.4" d; 16 oz. .... **CLOSEOUT \$69.99**

**ANTENNA  
SUPERMARKET****SHORTWAVE  
RECEIVING ANTENNAS**

**EAVES TWIN** The *Eavesdropper* Shortwave Broadcast Receiving Antenna - A 42 ft. long center-fed dipole with 8 automatic switching trap circuits which electrically separate the antenna segments to cover the 11, 13, 16, 19, 21, 25, 31, 41, 49, 60 and 75 meter short wave bands. May be installed as a "sloper", horizontal dipole or inverted "V". Includes a twin lead ZAP TRAPPER® electronic gas-tube lightning arrestor for receiver protection. Completely assembled, ready to use. Uses heavy 14-gauge hard drawn stranded antenna wire and includes 100 ft. of 72Ω twin-lead transmission line and 50 ft. of 450# test support rope ..... **\$99.99**

**EAVES SO239** - Same as the *Eaves Twin*, but does not include the twin-lead. Has a coaxial ZAP TRAPPER® protector and center insulator with SO-239 connector for 50/75Ω coaxial cable (not included).... **\$99.99**

**MFJ PRESELECTIONS & ACTIVE ANTENNAS**

### 956 SWL Receiver Antenna Tuner/Preselector

Boost your favorite stations while rejecting images, intermodulation, and phantom signals! Greatly improves reception from 0.15 to 30 MHz, especially below 2 MHz. It has tuner bypass/ground receiver positions. Dim: 2" h x 3" w x 4" d .... **\$69.99**



**959C** SWL Receiver Antenna Tuner/Pre-Amplifier Provides proper impedance matching resulting in maximum signal transfer from antenna to receiver. It covers 1.6 to 30 MHz. 20 dB preamp with gain control boosts weak stations. 20 dB attenuator prevents overload. Select from 2 antennas and 2 receivers. Dim: 9" w x 2" h x 6" d. Use a 9-18 VDC or 110 VAC with the optional MFJ-1312D .... **\$119.99**



**1040C** All-Band Preselector - A low-noise, high gain dual-gate MOSFET amplifier boosts signals and rejects out-of-band signals and images from 1.8 to 54 MHz. Push-button switches for two receivers, two antennas, attenuator and ON/BYPASS. Usable with transceivers up to 125W (automatic bypass on TX), bypassed when off. Uses 9 to 12VDC or 110V with an MFJ-1312D. Dim: 6.5" w x 2.5" h x 4" d. .... **\$119.99**

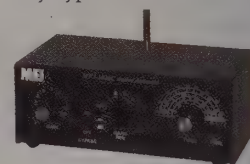


**1045C** Receiver Preselector - Copy weak signals and reject out-of-band signals, images from 1.8 to 54 MHz. Dual gate MOSFET, bipolar transistors for low noise and up to 20dB gain. Gain control. Connect 2 antennas, 2 receivers. Uses 9-18 VDC or MFJ-1312D adapter. .... **\$89.99**



**1046** Passive Preselector - Covers 1.6 to 33 MHz, receive only, passive (non-amplified). Improves the performance of nearly any HF or shortwave receiver. Eliminates phantom signals, intermod, blocking and cross modulation caused by strong out-of-band shortwave broadcast signals mixing and producing unwanted in band signals. Protects your sensitive receiver input from damage caused by very strong local signals. Dim: 7.5" w x 2.5" h x 3.25" d ..... **\$109.99**

**1048** Passive Preselector - Same as 1046, but a RF sensed TX/RX switch with adjustable delay automatically bypasses on transmit .... **\$129.99**



**1020C** Indoor Active Antenna - Covers 0.3 to 40 MHz with a 21 inch telescoping antenna and dual gate MOSFET & gigahertz bandwidth buffer that improves gain and selectivity, reduces noise and intermod. An effective preselector when used with an external antenna system. Uses 9V battery, 9-18VDC or 110V with an MFJ-1312D adapter. Dim: 6" w x 2" h x 5" d ..... **\$99.99**



**1024** Outdoor Active Antenna - Covers 50 kHz to 30 MHz. A separate RF amplifier with a 54 in. whip antenna mounts remotely away from electrical noise for maximum signal. It connects by the supplied 50 ft. coax to an inside control box with 20 dB attenuator, gain control, ON LED and a switch that selects two receivers and auxiliary or active antenna. Uses 12VDC or 110VAC with an MFJ-1312D adapter. Dim: (control) 6" w x 3" h x 5" d; (remote) 3" w x 2" h x 4" d ..... **\$149.99**



**1022** Compact Active Antenna - Covers 0.3 to 200 MHz. Improves the reception of international shortwave, ship-to-shore, airline, commercial RTTY, etc. Improves scanner radio reception from high to low band VHF. The J-310 FET and MRF-901 devices give excellent low noise reception using the 20 in. telescoping antenna. Has On/Off switch, power on LED. Uses 9V battery or 110 VAC with MFJ-1312D. Dim: 3" w x 1.25" h x 4" d ..... **\$69.99**

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**K**ick off the year 2009 in Orlando, at one of the great hamfests. See the latest equipment. Shop for swap deals. Find bargains at the largest tailgate area in the Southeast.

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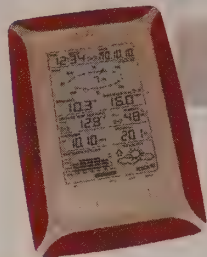
ORLANDO AMATEUR RADIO CLUB







## WEATHER STATIONS, etc.



### WS-1612CH-IT Professional Weather Center

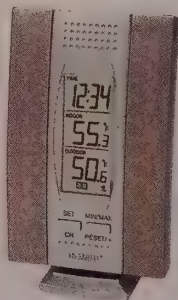
Operates wireless at 915 MHz from a remote sensor up to 330 ft. away.

Provides:

- Weather forecasting function with 3 weather icons and weather tendency indicator
- Records MIN/MAX temperature and humidity with time and date of recording
- Low/high outdoor temperature & humidity alarm
- Relative air pressure (inHg or hPa)
- Barometric pressure with 12 hour history graph (in inHg or hPa)
- Storm warning alarm
- Total rainfall (inches or millimeters)
- Wind speed (mph, km/h or m/s, and Beaufort scale); Wind chill (°F or °C); MAX wind speed with time & date of recording; high wind speed alarm; 16-step wind direction display
- Storage of 200 sets of history weather data recorded in 3-hour intervals; manual reset
- Selectable LCD contrast, Low Battery indicator
- Dim: Receiver: 8.9" h x 6" w x 1.25" d; Thermo-hygrometer: 2.25" h x 2.44" w x 6.18" d; Rain Sensor: 5.51" h x 2.75" w x 5.39" d; Wind Sensor: 9.84" h x 6.45" w x 7.58" d **\$139.99**

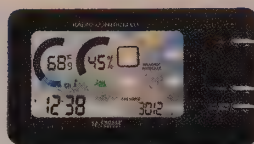
### WS-7013BZ Wireless Digital Thermometer

Displays both indoor and outdoor temperatures (°F or °C) simultaneously. Outdoor temperature is transmitted up to 80 ft. to the main unit via a remote sensor which also has its own display for viewing at its remote location. Records minimum and maximum temperatures in memory; outdoor temperatures are time stamped. Includes a highly accurate Quartz Digital clock (not an atomic clock). Just install the included remote transmitter, and get both outdoor and indoor temperatures along with the time. Approx. 4.5" tall, desk or wall mount... **C/O \$14.99**



### WS-7014CH Wireless Forecasting Station

Displays indoor and outdoor temperature plus indoor relative humidity. Forecast icons indicate Cloudy, Sunny or Rain. Wireless outdoor temperature sensor can be located 82 ft. away. Atomic Time clock. Uses (4) "AA" alkaline batteries. Dim: 5.43" h x 3.54" w x 1.18" d. Desk or wall mount... **\$49.99**



**WS-450B Color Forecast Station**  
Features animated color weather graphs that make it easy to gauge the weather at a glance. Predicts the

weather for the next 12-24 hours and displays a forecast icon based on the change of atmospheric pressure. The indoor/outdoor temperature and humidity displays include animated circular color graphs. Also displays the heat index and dew point.

- Comfort level indicator
- Memory function records MIN/MAX temperature, humidity, heat index and dew point
- 12 or 24 clock includes an alarm with snooze and automatically sets to the U.S. Atomic Clock, and adjusts for Daylight Saving Time
- Perpetual calendar
- Backlight with auto, high, low and off settings
- Remote sensor with range up to 246 ft.
- Power: Main unit (3) AAA alkalines or included 6.0 volt AC adapter; Sensor: (2) AAA alkalines
- Dim: 6.5" w x 3.5" h x 2" d... **\$69.99**

### WS-9023U-IT Wireless Weather Station

Monitor indoor and wireless outdoor temperature and humidity, min/max temperature and humidity and 12/24 hour time. Wall hanging or desktop. Uses 2 "AA" batteries in the receiver and sensor. 915 MHz, 330 ft. range. Dim: 4.54" h x 1.14" d x 1.14" d... **\$29.99**



### WS-7394U-CH-IT

Wireless Forecast Station

Operates wireless at 915 MHz with a range of up to 330 ft.

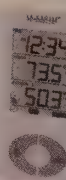
- Weather forecasting function with 3 weather icons and weather tendency indicator
- Outdoor temperature (°F or °C)
- Indoor temperature (°F or °C) and relative humidity %
- Records MIN/MAX temperature and humidity with time and date of recording
- Barometric pressure with 12 hour history graph; Barometric tendency arrow and Indoor comfort level icon
- Atomic time and date with manual setting; automatically updates for Daylight Saving Time (on/off option); 12/24 hour time display; Perpetual calendar; Time zone setting
- Receiver and Sensor both use (2) "AA" alkalines
- Dim: 8.75" h x 4" w x 1.5" d... **\$69.99**



### WS-8035U-SAL-IT

DLX Wireless Forecast Station  
Comes with wireless outdoor thermometer and wireless outdoor relative humidity sensor with a 300 ft. range.

- Digital Relative Barometric Pressure Readout with 24-hour History Graph, Trend Arrow and Forecast Icon
- Indoor and Outdoor Temperature (F or C) and Humidity (%RH)
- Indoor Comfort Level Icon
- Min/ Max Temperature and Humidity with Time and Date Stamp
- Atomic Time and Date with Manual Setting
- Auto Update for Daylight Saving Time
- Time Alarm with Snooze
- 12 or 24 Hour Time, auto updates for DST
- Perpetual Calendar • Moon Phase Indicator
- Time Zone Setting, US Time Zone Map
- Receiver & Sensor use (2) AA alkaline batteries
- Dim: 10" w x 7.5" h x 1" d... **\$89.99**



### WS-9080U-IT-CBP Wireless Temperature Station

Shows indoor temperature and outdoor temperature via sensor from up to 330 ft. away. Records MIN/MAX with time/date stamp. 12/24 hour Atomic clock; time and date sets automatically and adjusts for Daylight Saving time. Uses (2) "AAA" Alkaline and (2) "AA" alkaline batteries. Dim: 5.35" h x 3.74" w x 0.74" d... **\$29.99**

### WS-9121U-IT-CBP Wireless Thermometer

Shows Indoor temperature and wireless outdoor temperature from sensor located up to 330 ft. away. 12/24 hour time display. Uses CR2032 and (2) AAA alkalines. Dim: 4.66" h x 2.29" w x 0.69" d... **\$19.99**

### WS-9004U-IT

Wireless Rain Gauge

Wireless self-emptying bucket. Shows total rain and rainfall for the last 24 hours.

- User set rainfall alarm from .05 to 4" over 24 hours
- Current rainfall indicator; light rain and heavy rain indicators
- Remote sensor range: 330 ft.
- Receiver and sensor both use (2) AAA alkalines
- Dim: 3.85" h x 2.35" w x 0.83" d... **\$29.99**



### EA-3010 Handheld Anemometer

Check local wind speed and temperature. Wind mode indicates digital maximum or average wind speed (mph, m/s, km/h, knots) digitally plus Beaufort on a 0-12 bargraph scale. Temperature mode shows digital temperature and wind chill. LED back light and auto-off. Weather Resistant Case, neckband. Powered by (1) CR2032 battery. Dim: 4" h x 1.63" w x 0.7" d... **\$49.99**



WS-8117U-IT-OAK



WT-3102S

### WS-8117U-IT-OAK Digital Atomic Wall Clock

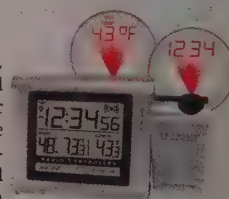
Shows 12/24-hour time, a perpetual calendar, indoor temperature and outdoor temperature via a remote sensor up to 82 ft. away. Clock sets automatically via WWVB, has 13 time zone settings, daylight saving time and 8 moon phase icons. Alarm with snooze. Wall mount or free standing. Requires (4) "AA" alkaline batteries Oak finish. Dim: 12.2" w x 8" h x 1.18" d... **\$46.99**

### WT-3102S Analog Atomic Clock

10 in. diameter. Automatically sets time, accurate to the second and updates for daylight saving time. Four time zone settings. Uses "AA" alkaline battery... **\$19.99**

### WT-5120 Projection Atomic Alarm Clock

Displays 12 hour time, indoor temperature and humidity, plus outdoor temperature on its large LCD display. It alternately projects time and outdoor temperature on the ceiling or wall. Alarm and snooze. AC Adapter Included. Dim: 3.6" h x 5.52" w x 1.9" d... **\$39.99**





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**Ultimeter 2100** Weather station - Features a platinum-tone housing with blue backlighting and illuminated keypad for exceptional visibility. Incorporates Peet Bros. sensor technology, including an all-digital anemometer. Shows: Barometric Pressure and numeric pressure change over a 3-hour period, plus a preset barometric Storm Alert; Wind Speed; Wind Direction; Indoor/Outdoor Temperature; Wind Chill; Time and Date. Humidity sensors and rain gauge optional. A Triple-Bank Memory System allows saving extreme values for future reference. WeatherText™ software from Peet allows the following data to be captured and saved as a .txt file for later viewing or printout: all current values, plus the highest wind speed over the past five minutes with direction; average wind speed over the last minute; 3-hour barometric pressure change; long-term rainfall; today's highs/lows; current time/date. The 7-mode serial port facilitates PC data logging and remote reporting via telephone, modem or RF link. Comes "APRS-Ready" for the Kenwood TMD-710A, requiring only SCF00400 cable. Dim: 7" w x 3" h x 1.3" d. **WSF-21000 \$299.99**



**ULTIMETER 800** Weather Station - If you require full Wind, Temperature, and Humidity functions, but don't require Barometric pressure readings, this unit is a great value. The 800 features and functions are similar to the 2100, above. Dim: 6.75" w x 2.8" h x 1.3" d. **WSF-18000 \$199.99**

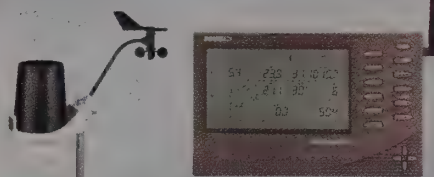
**ULTIMETER PRO**  
**Rain Gauge** - Works on a drop-counting principle which senses every .001" of rain and records every .01" to the ULTIMETER. Self-emptying, no moving parts - needs no adjustments, only occasional cleaning. Handles rain rates up to 10 inches/hour. Includes a 40 ft. cable and mounts on a 1" PVC pipe (not included). **WSF-10100 \$89.99**

**Interface Cable** - Connects the 2100 or 800 serial port to a Kenwood TM-D710A for APRS WX station. **SCF-00400 \$9.99**



# DAVIS

WEATHER STATIONS



**6152 Wireless Vantage Pro2** - It uses frequency hopping Spread Spectrum to transmit and receive data up to 1000 ft. line of sight. Quick view icons show the forecast at a glance-sunny, partly sunny, cloudy, rain or snow while a moving ticker-tape display gives more details. The sensor suite combines a rain collector, temperature, humidity and anemometer into one package-making setup easier than ever and improving performance and reliability. For improved accuracy, temperature and humidity sensors are housed inside a radiation shield which protects against solar radiation and other sources of radiated and reflected heat ..... **\$539.99**

**7425 Weather Wizard III®**  
Offers most monitoring features of the Davis Weather Monitor II, except barometric pressure and inside humidity. Measure daily and accumulated rainfall with optional rain collector. Optional Weather-Link software will process and store data through an IBM®-compatible or Mac®. Metric or U.S. Dim: 5.25" x 5.875" x 3" ..... **\$179.99**

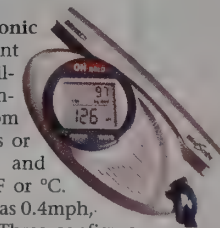
**7852 Rain Collector II** - For 7440 or 7425. Read both daily and accumulated rainfall in 0.01" increments. Comes with 40 ft. cable ..... **\$69.99**

**7400 Perception II®** - Ideal for keeping track of climate conditions inside the home. No installation required. Looks similar to 7425; Indoor temperature -32°F to 140°F; Barometric pressure with memory recall; Humidity; Alarms for temperature, humidity, time & barometric change ..... **CLOSEOUT \$79.99**

## WIND GAUGES

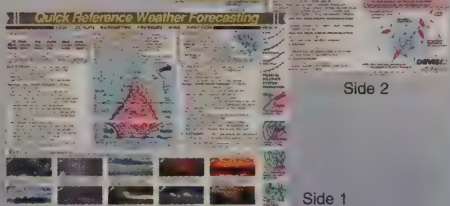
**0276 Windscribe Ultrasonic Wind Meter** - Reads current wind speed, headwind, tailwind, 5-second and running average. Select from mph, km/h, fpm, m/s, f/s or knots, plus temperature and wind chill in tenths of °F or °C. Sensitive to breezes as low as 0.4mph, and as high as 150mph. Three configurations include handheld use with adjustable lanyard, tripod mount and mounting bracket with Velcro® strap. Includes 3V lithium battery. Dim: 5" x 3" x 0.75"; 3.5 oz ..... **\$99.99**

**0281 Wind Wizard™**  
**Wind Speed Indicator**  
Accurately measures speed from 0-60 mph in miles per hour, meters per second and Beaufort. Readout supported by sapphire jewel bearings and steadied by rare-earth, magnetic, damping system. Latching folding handle. Self-powered - no batteries needed. Dim: 3.625" x 2.875" x 1" folded; 2.5 oz ... **\$49.99**



# DAVIS

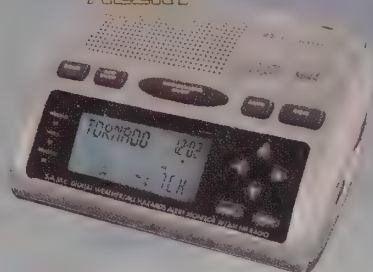
Weather Forecasting Quick Reference Card



**0131 Weather Forecasting Quick Reference Card** - Discusses the use of wind direction, barometric pressure and cloud type in predicting the weather. Includes full list of radio weather stations for official broadcasts, plus key information on storm warnings, hurricane avoidance, navigating in fog, other hazardous conditions & more. Waterproof, strong plastic, full color. Punched for binder or bulkhead mounting. Dim: 8.5 x 11 in ... **\$9.99**

# MIDLAND

WEATHER RADIOS  
ALERT



**WR-300 AM/FM Alarm Clock Radio with 7-Channel Weather/All Hazards** - For security, be alert to conditions that affect you. This unit offers Specific Area Message Encoding (S.A.M.E.) technology which preprograms the device to receive only those warnings that apply to your local area. You can choose state, county, and/or nearby counties. Offers 30 programmable county codes, AM/FM tuning, date, time, alarm functions, and automatically switches from AM/FM to pertinent all-hazard alerts. Drift-free PLL and easy-to-read blue, backlit LCD. You get a convenient, 10-alert memory, and can add, edit, and remove unwanted alerts at any time. Operates from the supplied AC power adapter or (4) AA Batteries (not included) ..... **\$59.99**

**74-250C All Hazard Alert Handheld Weather Radio with S.A.M.E. Technology**  
Get 24-hour, up-to-the-minute weather and hazardous-conditions information. Receives all seven NOAA weather channels and has SAME (Specific Area Message Encoding) technology. Digital panel displays up to 56 messages. Includes a 12/24 hour dual alarm clock with snooze and nine memory settings. Built-in fahrenheit/celsius thermometer with freeze warning alert. Waterproof for outside use. Requires two "AA" cells (not supplied) and supports in-unit battery charging of two NiCD or NiMH "AA" cells (not supplied). Battery low indicator. Dim: 4" h x 2.75" w x 1" d ..... **\$49.99**





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## TV ANTENNAS

**PROSTAR® 1000 VHF/UHF/FM Antennas** Features die-cut impedance correlator that allows close spacing of antenna elements. Manufactured from high tensile aluminum for a strong, compact antenna that will better withstand strong winds and ice loading. Protected with polymer finish.

**PR-7032 Far Suburban** – 33 active elements (13 VHF, 20 UHF); 103.25" boom. **C/O \$89.99**

**PR-7042 Fringe** – 43 active elements (17 VHF, 26 UHF); 149.75" boom ..... **Closeout \$149.99**

## TV COAXIAL CABLE



TV-2900

**RG-6 75 ohm TV Coaxial Cable** – Cellular poly dielectric, #20 copperweld center conductor, 100% aluminum foil shield and 40% aluminum braid shield provides low-loss, good conductivity, flexibility and high tensile strength. Weather-proof F-connectors are installed on each end.

**CX-0625** – 25 ft. length ..... **\$10.99**

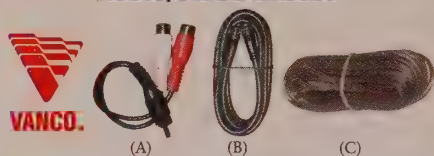
**CX-0650** – 50 ft. length ..... **15.99**

**CX-0675** – 75 ft. length ..... **19.99**

**CX-6100** – 100 ft. length ..... **24.99**

**TV-2900 Matching Transformer** – Adapts 75 ohm coaxial cable with F-type connectors to a 300Ω TV antenna or TV set. Includes F connector and weatherproof boot ..... **\$2.99**

## AUDIO/VIDEO CABLES



**AC-3F Audio "Y" Adapter (A)** – (1) RCA Plug to (2) RCA Jacks, Shielded, Red/White, 6 in. .... **\$1.99**

**FF-3 Video Cable (B)** – 3 ft. high quality TV/VCR cable made of low loss 75 ohm RG-59 cable with molded "F" connectors ..... **\$1.99**

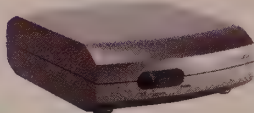
**SPW-52 Speaker Wire (C)** – 25 ft. 18 gauge, clear flexible jacket with polarity stripe ..... **\$8.99**

**velleman® inc.**

## AUDIO/VIDEO SWITCHER



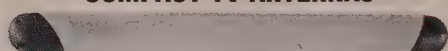
**AVW-089 3-Channel Audio/Video Switcher** Accepts audio and video input from three different sources. Select and switch them to a single output. Dim: 6.3" w x 1.2" h x 2.6" d, 3.5 oz. .... **\$8.99**



## TV VOLUME REGULATOR

**VR-1 TV Volume Regulator** – Advanced DSP regulates TV volume level during loud commercial breaks, through loud or quiet scenes during a movie, while channel surfing, or when switching A/V devices. To install, connect a component (VCR or receiver) to your TV's audio/video input or run line-level audio from your TV to a separate receiver or audio system, with the VR-1 connected in-line. Set the volume you want, and operation is fully automatic. Built-in noise reduction cleans up audible "hiss" and noise. Bypass button allows hearing the full dynamic range. Uses standard RCA stereo audio connections, includes 6 ft. audio cable & AC adapter. Dim: 3.2" w x 1.25" h x 4.12" d. **C/O \$39.99**

## COMPACT TV ANTENNAS

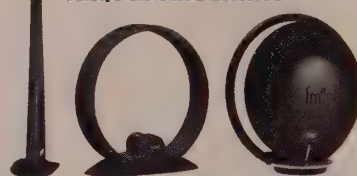


**TV-55 Amplified Out/Indoor TV Antenna** – Uses a helical, coiled broadband single element engineered for clear, powerful reception of HDTV broadcasts. Receives both UHF and VHF frequencies from 54-806 MHz. Built-in ultra-low noise 10dB amplifier (switch in or out for best reception). Mounts in or outdoors. Includes a AC adapter and mounting hardware. Dim: 46" w x 3.5" h x 2.25" d. .... **\$99.99**



**HDTV-1 Indoor UHF/VHF/HDTV Antenna** Utilizes long periodic-tuned elements and dipoles for receiving both UHF and VHF HDTV broadcasts. Tuned for optimum reception – high front-to-back ratio eliminates reflected signals and high gain picks up distant signals. Dim: 13.5" w x 9.1" h x 16.5" d; 42" high with dipoles extended. .... **\$49.99**

## AM/FM ANTENNAS



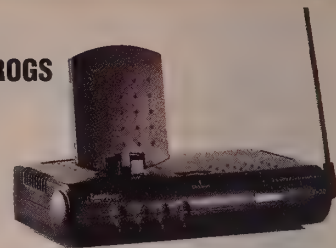
**TOWER AM-FM Tower Antenna (left)** – Built-in amplifier with gain control improves AM and FM reception. Works with tuners and receivers with 75Ω or 300Ω FM antenna inputs. The AM connection consists of a pair of wires with U-clips. Useful 30-40 miles from broadcast transmitter .... **\$27.99**

**ADVANTAGE External AM Antenna (middle)** Passive, adjustable 530-1600 kHz AM antenna that improves reception over built-in loops. Used unattached, next to the radio. Position for best reception, then rotate tuning dial located at the center of the antenna to match the AM frequency tuned in on the radio. For best performance, connect directly to an external AM antenna input ..... **\$49.99**

**PI-B Powered Indoor AM/FM Antenna (right)** Improves FM reception by eliminating multipath interference and providing amplification from the built-in low-noise preamplifier. An adjustable AM loop enhances broadcast band reception. AC adapter included. Dim: 6" h x 6" w x 1.5" d. **\$49.99**

**TERK**

## LEAPFROGS



**LF-30S Leapfrog WaveMaster 30 Transmitter/Receiver System** – An easy-to-use, cost effective alternative to purchasing multiple A/V components. Allows remote control use of A/V signals from one source, such as a TV with satellite or DVD player, to another within your home. Transmits on 2.4 GHz band and penetrates walls, doors, ceilings and floors. Built-in IR extender enables use of existing or universal remote to control the system. Built-in modulator ensures connection to old and new TV's. Dim: 1.5" h x 7" w x 4.8" d. .... **\$99.99**

**LF-IRX Leap Frog Remote Control Range Extender** – Increases range capability of infrared remote controls. Provides the power to operate A/V components through walls and floors up to 100 ft. Operates on 418 MHz for wireless install. Simply plug base in near controllable unit, then plug the receiver in remote location. Cables and AC adapters included. Dim: 5" h x 2.5" w x 4" d. .... **C/O \$39.99**

**GROTHE ELECTRONICS**



## SIRENS & HORNS

**VS-2 Emergency Vehicle Siren** – For the volunteer fireman. A quality-built wail-yelp alarm that delivers a 120dBa sound level at 4 ft. with a frequency range of 600 to 1200Hz. Pre-wired with a 3-position switch (Yelp-Off-Wail). Includes a waterproof horn speaker, 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A; 2.7 lbs. .... **\$89.99**

**VS-3 Vehicle P/A and Airhorn with Rebroadcast** Powerful airhorn sound with 4 different sounds (no siren) Delivers 120dBa level at 4 ft. Locking down the microphone with the supplied rubber band, you can monitor sound from a mobile rig via the speaker outside. Includes horn speaker, microphone, electronic center, 10 ft. cable, mounting bracket and hardware. 12 VDC @ 1.5A. .... **\$129.99**

**VS-4 P/A Emergency Vehicle Siren** – Contains P/A, rebroadcast, wail, yelp, pulse and airhorn. P/A over-ride features, plus volume control of all siren modes. Restricts output when operating in people places. Includes horn speaker, microphone, electronic center (3 x 3.5 x 2 in.), 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A. .... **\$139.99**



**VS-2LS Siren-Light Combo** A one-unit siren and yelp alarm, revolving halogen light and window mount. Fits all cars, slides on top of car window and plugs into cigarette lighter. The power plug contains an "on" LED and three position switch to select Yelp, Off or Wail modes. 12 VDC @ 5A. Specify AMBER, BLUE or RED light. **Special Order ... each \$299.99**





**VTTS 25 Piece Multi-Purpose Toolset** – A quality toolset for the electronic engineer and hobbyist. Includes: 4.75" universal handle, 3" extension, 9 different bits, hex adapter, (4) 1/4" drive sockets, tweezers and plastic case. Dim: 6 x 4 x 2 in **\$9.99**

**Bits:** (Slotted) 1/8, 3/16, 1/4"; (Phillips) #1, #2, #3; (Star) T-15, T-20, T-25. **Sockets:** 4, 5, 6 and 8mm 1/4" drive. **Precision screwdrivers:** 4 slotted, 2 Phillips. **Pliers:** 4.5" mini diagonal, 5" mini long nose

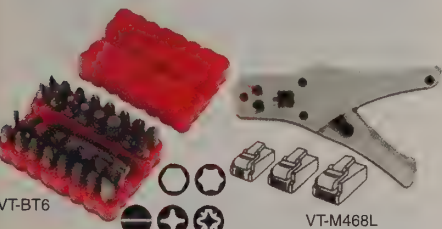


**VT-SET21N 8-in-1 Screwdriver Set** – 4 Phillips and 4 slotted screwdrivers. Each screwdriver fits into a bigger handle for greater torque. **C/O \$4.99**



**VT-SET3N 6-Piece Electronics Screwdriver Set** Includes: T6, T7, T8, T10, T15 x 50mm sizes. Each 4.2 in. screwdriver has its own handle ..... **\$9.99**

**VT-SET Stainless-steel precision Pliers Set** 5 Pieces: Diagonal cutter, top cutter, bent nose pliers, flat nose pliers, long nose pliers..... **\$9.99**



**VT-BT6 33 piece Screwdriver Bit Set** – Includes Hex: #2, 2.5, 3, 4, 5, 6; Star: #T10, T15, T20, T25, T30, T40; Flat: 3, 4, 5, 6, 7; Phillips: 1 PH0, 2 PH1, 2 PH2, 2 PH3; Pozzi: 2 PZ1, 3 PZ2, 2 PZ3; Magnetic bit holder: 14" hex..... **\$6.99**

**VT-M468L Crimp Tool** – For RJ10, RJ11, RJ45 (4P, 6P, 8P) modular connectors..... **\$9.99**

### AVM-2050 ANALOG SOUND LEVEL METER

- Omni-directional electret mic.
  - Ranges: 60, 70, 80, 90, 100, 110, 120dB (up to 126dB)
  - A and C weighting
  - Battery level indicator
  - Battery included
  - RCA output jack
  - Dim: 6.3"h x 2.4"w x 1.7"d; 0.4 lbs
- \$29.99**



**TLM-2 Test Leads** – Two leads with banana plugs. Length: 30/37 in. Rated: 1000V/15A ..... **\$2.99**

**TLM-10 Test Probe set** – (4) crocodile clips, (4) 0.16 in., pins (2) 0.08 in. pins, (2) forks..... **\$4.99**

**K/TF 75-piece cable-tie pack** – Contains 25 each of 3.9 in., 4.7 in. and 7.9 in. long ties..... **\$2.99**

**VT-LAMP2BNU Magnifier Lamp** – A 22W, circular fluorescent lamp with 1.75x magnifying glass, 41 in. arm length and table edge mount .. **\$49.99**



**DVM-850BL Digital Multimeter with Automatic Polarity Function and 3-1/2 Digit LCD Display (left)** – Manual range selection, Data-hold function and back light. Measures AC and DC voltage up to 600V. Current up to 10A with overload protection, and Resistance up to 2MΩ. Diode, transistor (hFE) and continuity test with buzzer. Test leads, 6LR61 9V battery and protection holster included. Dim: 2.7"w x 5.4"h x 1.2"d ..... **\$19.99**

**DVM-810 Mini 3-1/2 Digit Digital Multimeter (right)** – Compact, a perfect fit for any toolbox or even shirt pocket. Measure AC and DC voltages up to 500V and DC current up to 10A maximum. Measure resistance up to 2MΩ. Diode and transistor (hFE) test. Test leads and GP23GA 12V battery included. Dim: 3.75"h x 1.8"w x 1"d..... **\$9.99**



**VT-D2 Extra Powerful Desoldering Tool** – The easy way to remove solder from printed circuit boards, terminals and wires. Simply depress and lock down the spring loaded plunger. Place the tool tip over the heated molten solder and release the plunger. A strong vacuum at the tip removes the solder and captures it inside the cylinder. Teflon® nozzle. Dim: 13.2 in. long ..... **\$3.99**

**KESTER 82-5000-0004 Rosin Core Solder**  
Perfect for all ham radio and other electrical applications. 60% tin, 40% lead composition, .040" diameter and 374°F melting temperature allows quick and secure, non-corrosive connections. Approximately 8 ft. (1/2 oz) in handy dispensing tube..... **CLOSEOUT \$3.99**

**VELLEMAN SOLD-250GLF No Lead Rosin Core Solder**  
99.3% tin, 0.7% Cu, 482°F melt, 0.55 lb. **\$19.99**

## Weller SOLDERING TOOLS



**SP-23LK 25W Soldering Iron Kit** – Ideal for hobbies, kits, radios and delicate electronic work. "On" Indicator light. Supplied with three 750° tips, handy soldering tool and solder. Dim: 8-1/4 in. long, 1-3/4 oz., two-wire 6 ft. cord, 120V .. **\$17.99**

**W-60P 60W Pencil-Type Soldering Iron** – For most circuit work. 0.0625 in., 700°F screwdriver tip. Dim: 7 1/2 in. long, 2.5 oz., 6 ft. cord, 120V ..... **\$73.99**

**WP-25 25W Pencil-Type Soldering Iron** – For work on delicate electronics. 750°F tip temperature. Dim: 7.9 in. long, 1.75 oz., 4 ft. cord, 120V .... **\$38.99**

**ST-4 3/16 in. Screwdriver Tip** ..... **\$3.99**

**ST-5 3/32 in. Screwdriver Tip** ..... **\$3.99**

**WSTA3 Pyrophen® Butane Soldering Iron with Case** – Light-weight and completely portable. Operates up to 3-hours on a single charge of regular cigarette lighter butane (not included). Very fast heat-up time, ready to solder in just 30-seconds. Controlled soldering temperature is adjustable from 392° to 932°F. Supplied with tips for soldering, hot air (1202°F), and brazing..... **\$124.99**

**7200PK Multi-purpose Soldering Gun** – Compact and lightweight, but 75W for bigger work, connectors and almost any other heavier job. The flat, self-supporting back acts as a convenient rest. Includes a carrying case, extra tip and solder. 120VAC..... **\$29.99**

**7235 (2) Extra standard tips** ..... **\$3.99**



### SOLDERING STATIONS

**WESD51 50W Adjustable Soldering Station (left)** For continuous production soldering as well as occasional use. Quick heat-up, and tip temperature recovery. Microprocessor temperature control and LED display that shows the adjustable heat setting and tip temperature from 350 to 850°F. Automatic shut down after 90 minutes. Includes power unit, soldering iron with 3-wire 4 ft. cord, stand and tip cleaning sponge. Dim: 5.9"w x 4.5"h x 3.6"d; 4 lbs ..... **\$169.99**

**WTCPT 60W Temperature Controlled Soldering Station (right)** – For production, rework, and repair of through-hole and SMT boards. ESD safe, tip maintains a constant 700°F without any adjustments. Includes: Control unit, pencil-type soldering iron with 3-wire 4 ft. cord and stand with cleaning sponge. Dim: 4.5"w x 5.9"h x 3.6"d; 4 lbs. **\$149.99**



## Weller SOLDERING TOOL



**CHT-100** Weller®Coldheat™ Pro Soldering Tool  
Heats to melts solder instantly and then cools to the touch in just seconds. Produces over 700 joints per set of (5) AA alkaline batteries (not included). High/low power settings with capabilities to tin wire as large as 12 gauge or join wire from 18 to 25 gauge. Built-in bright white LED light to illuminate your work area, and red "in use" light. Rugged polycarbonate body and HD components. Includes, 61° angle chisel tip, protective cap and storage case. Dim: 9.25"l x 2" h x 1"d. **C/O \$29.99**

## WAHL ELECTRONICS ISO TIP

**7740** Cordless Soldering Iron Kit - Provides tip performance up to 50W and over 700°F. Contains premium NiCad rechargeable battery with high-rate charging capability. Partially discharged, it will return to full capacity within 1 to 2 hours, with a complete recharge in 3 to 4.5 hours. Replaceable battery and work light. Comes with recharging stand, fine and heavy soldering tips..... **\$52.99**

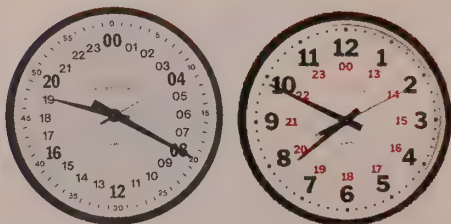


**7971** SolderPro 50 BUTANE Soldering Iron - Ready to use within 10 seconds. Adjustable, 410°F to 750°F and operates up to 30 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0mm conical tip. Dim: 4-3/4 in. long.. **\$25.99**



**7974** SolderPro 70 BUTANE Soldering Iron - Adjustable, 410°F to 850°F and operates up to 120 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0 mm conical tip and a torch tip. Dim: 7-1/2 in. long. **\$39.99**

## Benjamin Michael Industries INC.



**973A** - Battery operated 24-hour quartz controlled clock with sweep-second hand. The 12 in. diameter dial allows excellent visibility. Black textured case and glass crystal. Operates on one "AA" battery Dim: 14" diameter x 1.75"d..... **\$49.99**  
**972AD** - Same but 12/24 hour dial ..... **\$27.99**

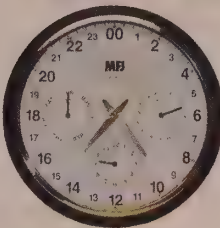
## MFJ

**105C** 24 Hour Quartz Wall Clock - Black, 10 in. diameter face, sweep second hand. Uses one "AA" battery..... **\$24.99**

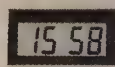
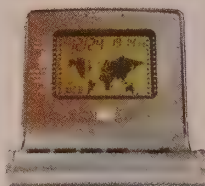


### 125 DXer's Dream Quartz Wall Clock

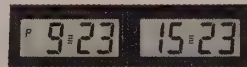
The 12 in. diameter face shows 24-hour time. Three independently settable table dials show 12 hour time, day and date. Uses a single "AA" battery ..... **\$34.99**



**112B** DXer's World Map Clock - Shows time at any QTH throughout the world on an attractive backlit LCD world map. Also shows day, month, date and year. Select 12 or 24 hour time, daylight saving time. Dim: 4.25"w x 3.3"h x 2.25"d ..... **\$29.99**



107B



108B

**Small 24-Hour Clocks** - A Dual Clock with separate UTC and local time display modules, and a Single Clock with 24-hour time only. Heavy brushed aluminum frame, 5/8" high LCD numerals, sloped face. Flashing seconds colon, battery included.

**107B** Single Clock - 2.25"w x 1"h x 2"d. **\$12.99**  
**108B** Dual Clock - 4.25"w x 1"h x 2"d..... **\$21.99**



**118** Jumbo LCD™ 24/12-hour Clock - 1.25 in. high with high contrast LCD. Shows year, month, date and day in four different languages. Includes 100 year calendar and flip stand. Uses one "AAA" battery. Dim: 5.75"h x 3.375"w x 0.5"d ..... **\$29.99**

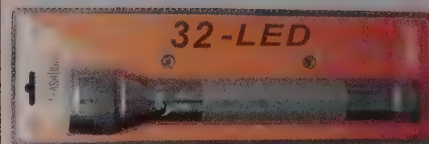


**123B** Solar Powered Atomic LCD Clock  
No need for batteries or to set time! Receives WWVB signal. Display is 3.5"h x 6.25"w with huge 2" time digits. Choose 24 or 12 hour time. Has indoor temperature, running seconds, month/date and day-of-week displays. Attractive silver metallic looks fantastic on the wall or desk mounted in the shack or office! Dim: 9.5"h x 6.25"h x 1"d. .... **\$79.99**



**113** 12/24 Hour Desk Clock - Switchable 12/24 hour display; 9-minute ID timer; Alarm function; 9V battery back-up for power failures; 110 VAC, 60Hz. Dim: 9"w x 4"h x 2.5"d ..... **\$19.99**

## HOUSE of DEALS LED Flashlights



FL-3232T



FL-8211B



HS-2005A

**FL-3232T** 32-LED Flashlight..... **\$24.99**

- Sturdy, metal body
- Dim: 12 x 2-1/4 in.
- Powered by (3) "D" batteries (not included)

**FL-8211B** 11-LED head/bicycle Lamp..... **\$9.99**

- 11 White & 2 Red blinking LED's
- Wide beam
- Adjustable head strap & bicycle attachment
- Dim: 2-3/4"w x 2"h x 4"d
- Powered by (3) "AAA" batteries (included)

**HS-2005A** 9-LED Pocket Flashlight.... **\$6.99**

- Sturdy, 3-5/8 x 1 in. camo metal body
- Powered by (3) "AAA" batteries (not included)

## PDK Technologies



**LITE FLARE®** Emergency Signaling Device  
Eliminates the fire and environmental hazards of using incendiary flares. No fumes, burns or risk of igniting spilled fuel or roadside foliage. Approaching drivers can see LiteFlare's flashing super-bright red LED lights from more than a mile away. Operates over 400 hours on just two included/replaceable AA batteries. Durable, the LiteFlare® stands up to repeated drive overs and the molded plastic case resists snow, water, and fuel spills. This palm-sized product comes as a Multi-pack of three units in a plastic case that fits handily into motorcycle storage compartments, safety boxes, or trunks. Dim: 4.25"l x 3.8"w x 1"d; 6 oz ..... (3 pack) **\$29.99**

## Great Gifts!... Gift Certificates

available from all AES locations  
& online at [www.aesham.com!](http://www.aesham.com!)





## ELECTRONIC LAB KITS

Educational • The fun way to learn about electronics and the wonders of science • Safe and Solderless using spring coil connections and powered by AA batteries • Illustrated manuals for EZ construction • No experience required!



**EL-301 30 in 1 Electronic Lab Kit** - This great starter kit contains everything you need to build a Radio, a Burglar alarm, Water detector, Morse code practice circuit, Simple computer circuits and much more ..... **\$39.99**



**EL-1301 130 in 1 Electronic Lab Kit** - Build a Radio; AM broadcasting station; Electronic organ; Kitchen timer; Logic circuits and much more. Comes with built-in speaker, 7-segment LED display, two integrated circuits and rotary controls ..... **\$89.99**



**EL-3001 300 in 1 Electronic Lab Kit** - Choose from over 300 exciting electronic projects including: Radio; IC organ; Burglar alarm; Battery checker; Delayed Timer; Electronic Game; Voltage controlled amplifier; Multiplier; Multiple counter; Light dimmer; Tone burst generator; Audio signal trace; Electronic candle; Voice level meter; Metal detector; Rain detector; Voltage drop alarm; Logic checker; Function generator and many more ..... **\$129.99**

## VECTRONICS RADIO KITS

There are three difficulty levels so you can have fun no matter what your skill level is!

**Simple (S):** Calls for a few basic tools - a soldering iron, cutters, pliers, wire-strippers, and a small screwdriver.

**Intermediate (I):** Requires more involved construction - you may use some test gear for final adjustment or tuning.

**Moderate (M):** Requires some test gear - usually a multimeter for some final adjustment or tuning.

**1140K 40M Receiver Kit (M)** ..... **\$29.99**

**121K Crystal Radio Kit w/Earphone (S)**.. **19.99**

**1240K 40M QRP CW Transmitter Kit (I)** **29.99**

**1290K AM Radio Transmitter Kit (S)**..... **29.99**

**131K Aircraft Receiver Kit (I)** ..... **29.99**

**201K CW Keyer Kit (S)** ..... **24.99**

**422K FM Broadcast SCA Decoder Kit (S)** **27.99**

**830K SSB Audio Filter Kit (S)**..... **19.99**

**841K Tunable SSB/CW Audio Filter Kit (I)** **34.99**

## BOUNTY HUNTER METAL DETECTORS



### LAND STAR

More features than other costly units. Includes a Bounty D-Tech™ search coil, advanced micro-processor electronics, 3-tone discrimination and Ground Trac® retune. Multi-function LCD and touchpad make it equally at home relic hunting, coin shooting, or gold prospecting. Set the notch to reject items, or "Auto Notch" detect coins 12 in. deep ..... **\$299.99**



### SHARP SHOOT II

Treasures missed won't escape the Sharp Shooter II™. Digital LCD, touchpad control, and interchangeable. Also features 3-tone audio discrimination, selectable auto/manual notch level, auto ground balance, battery indicator, S-rod comfort-grip handle with stand, headphone jack, and built-in speaker ..... **\$269.99**



### TRACKER IV

The optimum combination of power, ease-of-use, affordability, and big finds every time. The Tracker IV™ is built with a fully-submersible 8 in. Bounty D-Tech™ search coil, sensitivity meter, built-in speaker, headphone jack and battery indicator. Tracker IV features three different user-adjustable operating modes: Motion All-Metals Mode, Full Discrimination, and Tone Discrimination . **\$129.99**



**CARRY BAG** Padded Carrying Case - Protects metal detectors from the elements, in storage and transit. Rugged, double-stitched, nylon construction. Includes outside zip-pocket ..... **\$29.99**

**10" COIL** 10-inch Magnum Coil - Adds extra depth for relic and cache hunting ..... **\$49.99**



### QUICK DRAW II

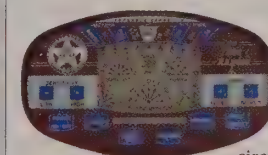
The Bounty Hunter Quick Draw II™ metal detector packs many powerful features, like an advanced Zilog Z-86 circuit, for superior discrimination and control. Also includes waterproof Bounty D-Tech™ search coil, three levels of iron discrimination, both target ID and depth readout, sensitivity control, full discrimination, auto and variable notch, and low battery indicator. Detects up to 10 in. deep and larger objects up to 5 ft. **\$229.99**

## CLOSEOUTS



### LAND RANGER

Offers many high-end features for the serious detectorist. Designed for every metal detecting application at a pro level. Touchpads keep all modes at quick and easy access while the LCD emits a constant reference source maximizing every possibility for finding treasure. It features an 8 in. waterproof, interchangeable search coil and SmartTrac® ground control C/O **\$349.99**

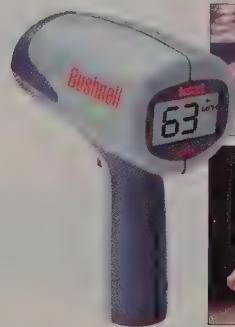


### TIME RANGER

Recover more relics and valuables from the past then ever before. The Time Ranger's powerful circuitry and smooth operation combine to deliver absolute performance. The innovative Sniff-Mode can be used in specialized applications when rejection or acceptance of a particular object is desired .....C/O **\$399.99**

## BUSHNELL SPEED GUN

Bushnell makes it easy to accurately measure speed with the Velocity™ speed gun. Very easy to use with its point-and-shoot operation. The Velocity™ speed gun boasts ±1.0mph accuracy. The Velocity™ can track the speed of a ball from 100 feet. It's the ideal tool for tracking everything from race cars to pitching speeds. Velocity™ gun has a 6-110mph range for baseball, softball and tennis, 6-200mph range for auto racing.



**10-1911 Velocity™ Speed Gun** - Easy-to-use, point and shoot pistol grip; Large, clear LCD display; Displays fastest speed once trigger is released; ± 1 mph accuracy; Operates on two "C" batteries. Dim: 4.3" x 8.4" x 6"; 13 oz..... **\$99.99**

## Q-VIEW QSL Card Holders



Proudly display and protect your favorite QSL cards in these 12" x 40" clear plastic hanging holders. Each holds (20) 3.5" x 5.5" cards. Opens at center to receive cards easily. The pack of three will display 60 cards .... **ART QSLCARDHOLDE (3 pack) \$18.99**







## COD ORDERS

Minimum COD order is \$50.00 in merchandise, shipment via UPS Ground only (no air or parcel post). The flat-rate, plus a \$9.00 COD fee per package applies. Payment by money order or certified check only, not cash.

## DAMAGED ITEMS

If you discover a damaged shipment, **THE CARRIER SHOULD BE NOTIFIED IMMEDIATELY**. The merchandise should not be returned to us until notified to do so by the carrier. All packaging materials must be retained including styro-foam peanuts, inner and outer cartons, labeling, etc. for inspection by the carrier or the claim may be denied. With shipments properly packaged (as all our shipments are), the ultimate responsibility for delivery in good condition rests with the carrier.

## DEFECTIVE ITEMS

Defective items should be returned to AES or the manufacturer for warranty repair or replacement, at the manufacturer's discretion. After processing, we will return it via ground method, at our expense in the 48 contiguous states. If you receive defective equipment, call our Customer Service Department at 414-358-4087 for instructions. It is the customer's responsibility to return the defective merchandise to AES or the factory. The manufacturer's warranty does not include reimbursement for freight charges. Canadians please see "*Canadians Note*:" under TRADE-INS.

## INTERNET ORDERS

You can order directly via our website - [www.aesham.com](http://www.aesham.com). If you have any problems using our website or would like to speak to a salesman; call any of our locations for support.

## PAYMENT

Accepted forms of payment are electronic bank transfer (add \$30.00 Wire Transfer Fee), certified check, personal check, money order, credit card (VISA, MasterCard, Discover, American Express, IMPAC), or COD. The customer's choices of payment methods may depend on amount of purchase or destination of shipment.

## PRICING

We will pass on decreases in pricing to our customers whenever possible. Due to foreign currency fluctuations, promotions, manufacturers' specials, etc. prices may vary, so be sure to confirm prices when ordering. All prices and specifications are subject to change without notice. AES is not responsible for typographical errors or omissions.

## REFUNDS

Amounts under \$5.00 are not refunded unless requested in writing to the Milwaukee headquarters within 12 months.

## RETURNS

In order to maintain the lowest possible prices, we do not offer a *free trial* or *evaluation period* on new equipment. If permitted, an **authorized** return of merchandise for credit (it must be like new with all original packaging) will be subject to a **Minimum 15% Restocking Fee**. The item must be returned within **10 days** after receipt, prepaid, with a copy of the purchase invoice and a letter describing the reason for the return. We reserve the right to charge back actual outbound freight on returns from flat-rate or prepaid shipments. No returns on antennas, towers, cable, items drop-shipped from the manufacturer, audio or video tapes, kits, books, or computer software. Canadians please see "*Canadians Note*:" under TRADE-INS.

## REFUSED ORDERS

If a package is refused by the customer the actual outbound freight and actual inbound freight charges by the carrier will be deducted from the return. Packages returned by the customer unopened will only be subject to actual outbound freight. AES also reserves the right to charge a minimum 15% restocking fee to the return.

## PACKING FOR SERVICE AND/OR RETURN

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 lbs., 3 in. of foam or crumpled paper should be used instead of polystyrene edge protectors. Send your package insured.

When you send your well-packed parcel to AES, be sure to include a letter inside the package stating your call, name, address, e-mail address, phone and reason for return. Do not rely on information written or taped on the outside of the carton.

## SHIPPING

Shipping charges, which include adequate insurance, are based on the Order Total at the time of the initial shipment (COD fees not included). The order amount on which charges are determined is pre-coupon and pre-tax (see chart on this page for rates). Cancellations on partially shipped orders will not affect

the shipping charges. All back-orders from partially shipped orders are shipped PREPAID at the expense of AES via UPS Ground Service to the contiguous 48 states only. Shipping calculations on Ground method to the contiguous 48 states have been simplified by utilizing flat-rate categories (see chart on this page for rates). Other expedited methods and any USPS methods are charged at regular rates without any credit for ground rates. CODs are not accepted for these faster methods or USPS.

Shipments to APO/EPO are via Priority Mail. Orders exceeding ground method weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges are taxable in WI, OH, FL & NV.

To insure orders arrive quickly, AES stocks items at all four locations. Occasionally, an item will be temporarily unavailable at certain branches due to various reasons. In this case, AES will ship the order from a location that has the needed item.

## TRADE-INS - CALL BEFORE SENDING

Amateur Electronic Supply accepts trade-ins on new equipment purchases, the worth of which is determined by the electrical and physical condition of the item. Estimates are given assuming the trade-in is in good electrical and physical condition. If it is not, a deduction will be made.

To facilitate a trade-in, the customer can choose one of the following: (A) Purchase the new item(s), send in the trade for evaluation, and have the trade-in amount refunded or credited. (B) Send in the trade and have the order held until the trade-in amount is determined.

When shipping trade-ins for evaluation, use a sturdy carton (double boxing is recommended) and plenty of packing material. Ship PREPAID & FULLY INSURED. Do not use Bus or Parcel Post. Collect shipments are not accepted.

AES assumes no responsibility for damage in transit or for filing of damage claims. Canadians, inquire locally about taxes and/or customs charges before releasing your shipment.

**Canadians Note:** Returned equipment not originally manufactured in the U.S. will be subject to valuation and custom charges, plus broker's fees. Check customs before shipping anything to us, including new equipment for warranty repair. We will not accept any shipments from outside of the U.S. unless all fees are paid in advance.

In a small part of our attempts to be more "Green" please excuse the use of boxes which contain logos and products of other companies.

## BIDS & PURCHASE ORDERS

AES accepts written and signed Purchase Orders from well rated D&B companies, military, schools, colleges, universities and federal, state, county and city Government agencies.

We welcome the chance to bid on your requirements and search the Internet daily for requests from all Government agencies. We are registered with FACNET and accept Government I.M.P.A.C.\* credit cards. For more information please contact any AES location.

## SPECIAL ORDERS

Occasionally manufacturers offer items that AES doesn't stock. Often we can order these items for you. Please contact sales: [info@aesham.com](mailto:info@aesham.com) for more information on special orders. Please note that once a special order is placed it cannot be canceled or returned.

## INTERNATIONAL ORDERS

AES can ship orders internationally. However our domestic policies do not apply to these orders. Payments will need to be made via bank wire transfer. We charge the actual freight amount, and the buyer will be responsible for all local fees and duties. To get a quote for an international order please contact [info@aesham.com](mailto:info@aesham.com) for complete details. All international regulations apply.

## EU COUNTRIES

Due to current European Union (EU) regulations, AES CANNOT export many products to EU member countries and members of the European Economic Area (EEA).

### FLAT RATE SHIPPING via UPS Ground in the contiguous 48 States

#### AMOUNT OF ORDER

#### SHIPPING CHARGES

Up to \$99.99 .....	\$4.99
\$100.00 to \$499.99 .....	\$9.99
\$500.00 to \$1499.99 .....	\$14.99
\$1500.00 & UP .....	PREPAID

*Flat Rate Does Not Apply To Drop Shipments or  
UPS Ground Shipments to Alaska or Hawaii*

Flat Rate Advantage - No Penalty for Number of Cartons or Weight!

UPS cannot deliver to Post Office Boxes



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Unlike some dealers, when you purchase a new radio from us our Service Department is able to provide you with outstanding technical support. Our technicians have decades of cumulative experience in the Ham Radio service field.

## Warranty Service

Please refer to manufacturers' warranty for information about warranties. Radios that are purchased new from AES and qualify for warranty will be repaired at no charge by AES or the manufacturer (DOA's may be replaced).

## Out-Of-Warranty, Late Model Equipment

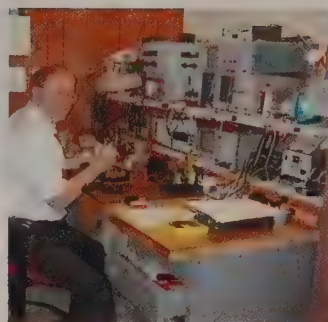
Whether the item was purchased from us or not, we will attempt to service it, provided service parts are still available. Before shipping your out-of-warranty items, arrangements must be made by phoning the Milwaukee Service Department at 414-358-4087.

## Shipping Equipment for Service

Before sending your item, make sure you contact the nearest AES location and find out the time frame for repairs. If you are concerned about time limitations, this will help you determine where to send the repair and how long your radio will be out.



MILES, K9HMQ (SERVICE MANAGER)  
(Milwaukee Store)



RICK, WB9HKE  
(Milwaukee Store)

Always include the following along with the item being shipped:

- a detailed note describing the problem(s)
- your address, day-time phone number, and email address
- a copy of the original invoice, if item is still under warranty
- the method of payment (see Policies page for options)

After packing your item securely in a box with ample packing materials (foam, styrofoam spacers, etc.), mark the shipping label "Attn: Service" and always adequately insure your items.

## Labor Rates

- \$60 per hour for Out-Of-Warranty Service
- \$80 minimum on HF/VHF Base Stations
- \$60 minimum on VHF Mobiles and Handheld Transceivers
- Rates do not include Parts, Return Shipping or Handling Charge

## SHIPPING INFORMATION

### FLAT RATE SHIPPING via UPS Ground Method in the Lower 48 States

#### AMOUNT OF ORDER

#### SHIPPING CHARGES

Up to \$99.99 .....	<b>\$4.99</b>
\$100.00 to \$499.99 .....	<b>\$9.99</b>
\$500.00 to \$1499.99 .....	<b>\$14.99</b>
\$1500.00 & UP .....	<b>PREPAID</b>

*Flat Rate Does Not Apply To Drop Shipments  
or UPS Ground Shipments to Alaska or Hawaii*

(Flat Rate Advantage - No Penalty for Number of Cartons or Weight!)

### EXCEPTIONS TO RATES ABOVE

Optional UPS methods (Red, Blue & Orange) and any USPS methods are charged at Regular Rates without any credit for UPS ground rates. COD's are not accepted for these other methods.

Shipments to APO/FPO go via Priority Mail. Puerto Rico, Alaska and Hawaii can be shipped to via Priority Mail or Blue Label. Orders exceeding UPS or USPS weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, OH, FL & NV.

Please see **Policies Page** for complete information.

**TRACKING NUMBERS** for out-bound shipments are gladly given. Call our local number, 414-358-0333, and ask for our Tracking Number Service.



$$\frac{L \times W \times H}{194} = \text{Dimensional Weight}$$

### Packing

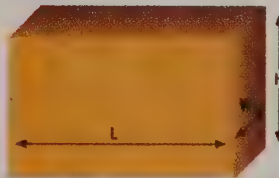
When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. In other words, if you put your IC-756PRO, TS-2000 or AL-1500 in a box with little or no packing beneath it, chances are it will sustain some damage. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 pounds, three inches of foam or crumpled paper should be used instead of polystyrene edge protectors.

### Include information

When you send your well-packed parcel to AES for repair, return or trade-in, be sure to include a letter inside the package. Do not rely on information written or taped on the outside of the carton. This information can be destroyed by moisture or abrasion. In the letter, put your call, name, address, phone and reason for return. You may also want to include your e-mail address and times you can be reached via telephone.

### Dim Weight

When calculating the cost of Air Shipments, whether Fed-Ex, UPS or other carrier, they use Dimensional (Dim) weight to insure adequate revenues per cubic foot of cargo plane space. The illustration above shows how to calculate the Dim weight for both Domestic and International shipments. For example: a 12"x13"x16" box that weighs 6 pounds will be sent at the 12 pound rate via Domestic Air.



$$\frac{L \times W \times H}{166} = \text{Dimensional Weight}$$

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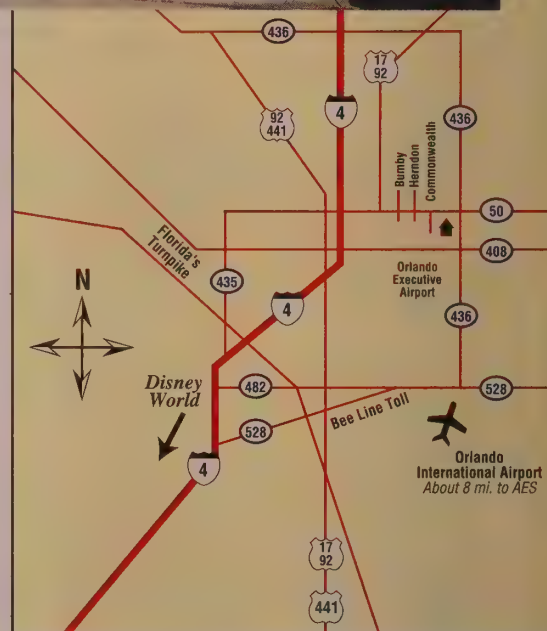
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